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ESTAB. 1859

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Index to Advertisers, pp. 5 & 6.

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INDEX TO ADVERTISERS

Abdul Ishmal Hamira & Co., Ld., *Ess. Oils* ... 23
Alliance Drug & Chem. Co., *Chemicals* xii
Anglo-American Oil Co, *Nujol* ... xvii
Anzora Perfumery Co., Ld., *Hair Cream, &c.* ... 26
Assoc. of Mfg. Chemists ... Col. Supp.
Astor, Boisselier & Lawrence, *Drugs* xii
Ayrton, Saunders & Co., Ld., *Wholesale Druggists* ... 15

Bailey, R., & Son, Ld., *Surgical Dressings* ... 19
Baker, Parson C., *Chemists' Valuer* Col. Supp.
Barcham Green, J., & Son, *Filters* xxxiii
Barker, R., & Son, *Infants' Preservative* ... xxiv
Barkola Co., Ld., *Proprietary* ... xvii
Battin, H., & Co., Ld, *Hyposulphite of Soda* ... vii
Battle, Maltby & Bower, *Sheep Dips, &c.* ... xxx
Beecham, Thomas, *Pills* ... xviii
Bell (John), Hills & Lucas, Ld. ... Cover
Benzoates, Ld., *Chemicals* ... ii
Berdoe & Fish ... Col. Supp.
Berk, F. W., & Co., Ld, *Acids* ... ii
Berton, Arthur, Ld., *Vacuum Flasks* xxxvi
Bishop, A., Ld., *Fruit Saline* ... xxii
Boisselier, Astor & Lawrence, *Drugs* xii
Boots Pure Drug Co., Ld., *Tinctures* viii
Bourjois, A., & Cie, Ld., *Face Powder, &c.* ... 28
British Cyanides Co., Ld. ... Cover
British Drug Houses, Ld., *Eastern Foam* ... 38
British Dyestuffs Corporation, Ld. ... ii
Bromage, G., & Co., *Ess. Oils, &c.* ... 20

Brotherton-Ratcliffe & Co, Ld., *Chemicals* ... v
Browning, The Wm., Co., Ld. ... i
Buckler, F., Ld., *Containers* ... 28
Burge, Warren & Ridgley, Ld, *Rubber Sponges, &c.* ... 18
Burgoyne, Burbidges & Co., *Fruit Saline* ... xxiii
Burkett, Sharp & Co., Ld, *Chemicals, &c.* ... vi
Burrough, J., Ld., *Absolute Alcohol* Text
Burroughs Wellcome & Co., *Laxamel* 37
Bush, H. W., & Co., Ld., *Sundries* xxxvi
Bush, W. J., & Co., Ld., *Chemicals* Cover
Butler & Crispe, *Seidlitz Powders* ... 9

Cadbury Bros., *Cocoa* ... Cover
Callard & Co., *Vitmar* ... xxiv
Calnan, W. H., & Co., Ld., *Perfumery, &c.* ... 29
Camwal, Ld., *Mineral and Aerated Waters* ... xxii
Carmichael Soap & Perfumery Co., Ld. 16
Cartwright, W. B., Ld., *Sundries* ... 7, 33
Cavendish Chemical Corporation ... xiv
Cellophane Co., *Wrapping Material* xxxiii
Cephos, Ld., *Proprietary* ... xvi
Chemical Works Roermond, *Essential Oils* ... 21
Christy, T., & Co., *Cachets* ... xviii
Coleman & Co., *Wincarnis* ... xxii
Collett, J. M., & Co., Ld., *Fruit Preservative* ... xxv
Condy & Mitchell, Ld. ... i
Connell, A., & Co., *Chemicals* ... iv
Cook, E., & Co., Ld., *Shaving Soap* ... 31
Cooper, Son & Co., Ld., *Cachets* ... xxxiv
Corbyn, Stacey & Co., Ld., *Sunburn Cream* ... 14
Cossor, A. C., & Son, *Clinical Thermometers* ... 36

Cox, Arthur H., & Co., Ld., *Tablets* ... 1
Curasol Sock Co., *Boracic Socks* ... xxix

De Vilbiss Co., Ld., *Atomisers, &c* xviii
Dearborn, Ld., *Toilet Specialities* ... 30
Dee Oil Co., Ld., *Petroleum Jelly* ... xx
Denoual, Jules, & Co., *Capsules* ... xi
Duncan, Flockhart & Co., *Anæsthetics* iv

Ecroyd & Co., *Home Dyes* ... 36
Edwards, W., & Sons, *Water Wings* xxviii
Evans, Gadd & Co., Ld, *Health Salt, &c.* ... 32
Evan-Williams Co., Ld., *Shampoo* ... 26
Express Developing Co., *Photographic* xxxiv

Fairy Dyes, Ld., *Home Dyes* ... xxxvi
Farrow & Co., *Bottles* ... 34
Fassett & Johnson, Ld., *Spray Syringe* ... xxviii
Fink, F., & Co, *Gums* ... xviii
Fletcher, Fletcher & Co., Ld., *Tonic Food* ... 2
Ford, Shapland & Co., Ld., *Printing* ... 8
Fox Foto Service ... xxxiv
Frost, A. B., & Co., *Chest Protectors, &c.* ... xxxi
Fujisawa, T., & Co., *Camphor, &c.* ... xiv

Gardiner & Co., *Overalls* ... xxv
Garfield Tea Co. ... xvii
Garratt, J. E., *Newskin* ... xvii
Genatosan, Ld, *Special Offer* ... 13
George, E. J., *Stocktaking* ... Col. Supp.
Gimber, W., & Son, *Crepe Bandages* xxxii
Goodall, Backhouse & Co. ... Cover
Gough, Kidston & Co., *Petro. Jelly* xxi
Gower, J., *Books* ... Col. Supp.

[*Continued overleaf.*

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INDEX—cont.

Graesser-Monsanto Chemical Works, Ld. ... 3
Greeff, R. W., & Co., Ld., *Chemicals* ... 4

Hammer & Co., *Chemicals* ... ii
Hampshire, F. W., & Co., Ld., *Fly Band* 16
Harker, C. R., Stagg & Morgan, Ld., *Peldo* ... 25
Henry, T. & W., *Calcined Magnesia* vi
Herbert's Glass Works ... 34
Hertz & Co., *Petro. Jelly, &c.* ... xix
Hind & Lund, Ld., *Machinery* ... xxxii
Hollandsche Melksuikerfabriek ... x
Holliday, L. B., & Co., Ld., *Chemicals* vii
Hood, C. I., & Co., Ld, *Medicines* ... Text
Hough, Hoseason & Co., Ld., *Manfg. Chemists* ... ix
Huisking, C. L., Inc., *American Drugs* xiv

Jackson, E., & Co, Ld., *Glossettes* ... xvi
Josephs, Philip, & Sons, Ld., 8, Col. Supp.

Kent, G. B., & Sons, Ld., *Brushes* ... 32
Kerfoot, T., & Co., Ld., *Mineral Spring* 17
Khambata, J., & Co., *Tartaric Acid, &c.* v
Kirby, H. & T., & Co., Ld, *Lemonade Tablets* ... 35

Laboratories of Pathology, &c. ... Text
Lamb & Watt, Ld., *Wines* ... xxv
Lawrence, E., & Co., *Corn Cure* ... xix
Lee, H. J., & Co, *Combs* ... 28
Licenses & General Insurance Co., Ld. 6
Linton, Hubbard & Andrew, *Liquorice* vi
Lorimer-Marshall, Ld., *Health Salts* xxv

Macajone, G., *Ess. Oils* ... 22
Macbean, E., & Co., Ld., *Surgical Goods* xxix
McGlashan, D., Ld., *Abdine* ... xxiv
Macfarlan, J. F., & Co., *Ethers* ... iii
Magnus, Mabee & Reynard Inc., *Ess. Oils* ... 23
Marsden, Charles C. ... Col. Supp.
Mavlankar, K. B., *Essential Oils* ... 22
Maw, S., Son & Sons, Ld. ... 11
Mawson, J. W., & Co., Ld., *Santrocyl* vi
Meade-King, Robinson & Co., Ld. ... xx
Menley & James, Ld., *Skin Soap* ... x
Millar, A., & Co., Ld., *Orange Wine* xxiv

Milner's Chemical Co, *Straw Hat Cleaner, &c.* ... xxx
Morny Freres, Ld., *Perfumery, &c.* ... 27
Morris, Little & Son, Ld., *Sheep Dips, &c.* ... xx
Murphy & Son, Ld., *Pharml. Chemists* vii
Murphy, J. F., *Antiphlogistine* ... xvi

Natural Food Co, Ld., *Foods* ... xxiv
Nestles, *Feeding Bottle* ... xxxi
Newball & Mason, *Extract of Herbs* xxiv
Newbery, F., & Sons, Ld., *Lozenges* xi

Oakey, John, & Sons, Ld., *Knife Polish* ... xxx
Oldfield, Pattinson & Co., *Pharm. Preps.* ... 5
Orridge & Co. ... Col. Supp.

P.A.T.A. ... 36
Page, Chas., & Co., Ld., *Chemicals* ... vi
Paine & Co., Ld., *Malt Extract* ... 35
Parnall & Sons, Ld, *Shopfittings* xxxviii
Pillischer, J., *Clinical Thermometers* 34
Potter & Clarke, Ld., *Capsules* ... xiii
Prescott & Co. ... Text
Price, A. S., & Co., Ld. ... xi
Price's Patent Candle Co, Ld., *Perfumery, &c.* ... 24

Quelch, Henry C., & Co., *Manicure Preps.* ... 30

Ramsey, S., & Co., *Sieves, &c.* ... xix
Raoul Freres, *Chemicals* ... vii
Raworth, J. E., & Moss, *Pat. Agents* xxiv
Rayment, K., *Saperol* ... x
Rice, W. S., Ld., *Trusses* ... xxxi
Roberts Patent Filling Machine Co. xxxii
Robinson & Sons, Ld., *Boxes* ... xxxv
Roques, Ferdinand, *Alkaloids, Cacodylates* ... xvi
Rose, J. L., *Pyrogallic Acid* ... vi
Rozen, L., & Co., *Chemicals* ... iii
Ruch, A., & Co., Ld., *Bottles* ... 34
Rudduck & Co. ... Col. Supp.
Ruvoire et Cie, *Perfumery* ... 23

Sandoz Chem. Co., Ld., *Chlorophyll.* ... 20
Sanitas Co., Ld., *Disinfectants* ... Text
Sangers, *Curasol Socks* ... 10
Sayers, Silcox, Cuzner & Co., Ld., *Trusses, &c* ... xxix

Scholl Manfg. Co., Ld. ... xviii
Schivens, E. L., *Developing* ... xxxiv
Scurr, C. A., *Correspondence Course* ... 12
Seven Spas Propy. Co., Ld., *Soap* ... xix
Shadeine Co., *Hair Dyes* ... xxxiv
Shawyer, *Developing* ... xxxiv
Sherborne, T., & Co., *Trusses* ... xviii
Shipkoff & Co, *Otto of Rose* ... 22
Sims, G. R., Hair Restorer Co. ... 26
Smith & Co., *Fly Catcher* ... xviii
Smith, T. & H., Ld., *Chemicals* ... Cover
Spatula Publishing Co., *Books* ... 12
Squire & Sons, Ld. ... 16
Stearns, F., & Co., *Digestive Ferments* xv
Stephens Bros. & Co., *Ess. Oils* ... 20
Sterns, Ld., *Oils, Petroleum, &c.* ... xxi
Stevenson, Hugh, & Sons, Ld., *Boxes* xxxv
Sunlight Manfg. Co., Ld., *Electric* ... xxx
Suttley & Silverlock, Ld., *Almanacks* 12
Swales, Thomas, *Willow Boxes* ... xxxi

Taylor, H. A. & D., Ld., *Malt Extract* xxvii
Thornley, S., Ld, *Methyl. Spirit* ... xxi
Tipper, B. C., & Son, *Veterinary* ... 16
Titterton & Howard, *Brushware* ... 32
Tomoda & Co., *Japanese Products* ... v
Toombs, A., & Co., *Capping Skins* ... 32
Tunbridge & Wright, *Fly Catchers* ... 16

Venesta, Ld., *Coll. Tubes* ... xxxiii
Viscose Development Co., Ld., *Bottle Cappings* ... 22

Waide, Thos., & Sons, *Chemists' Printing* ... xxi
Wallace Heaton, Ld, *Photographic* xxxiv
Westminster College of Pharmacy ... 12
Whitaker & Co., *Hat Dyes, Household Dyes* ... xxxvii
White, A., & Sons, Ld., *Chemicals* ... iv
Wilkinson, S. W., & Co, *Machinery* xxxii
Williams Bros. & Co., *Colours* ... xxvi
Winter, E., & Co., Ld., *Silver Leaf, &c.* xx
Woodward, W. (1920), Ld., *Gripe Water* xix
Woolley, Jas., Sons & Co., Ld. ... Cover

Young, Geo. (Chemists), Ld. ... 23

Zeal, G. H., *Clinical Thermometers* ... 8

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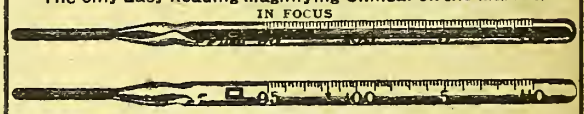

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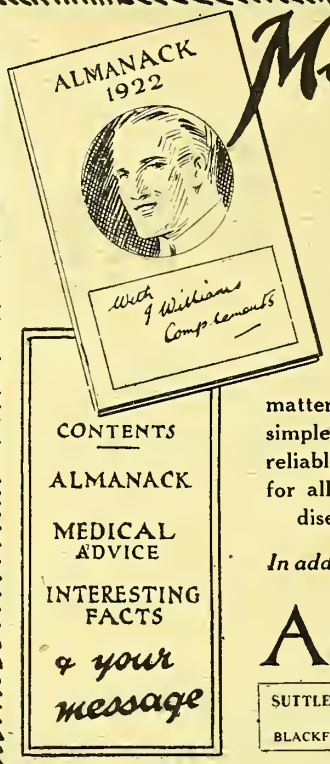

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AYRTON'S WEEKLY PAGE 16

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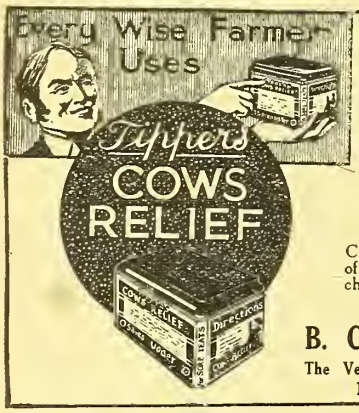

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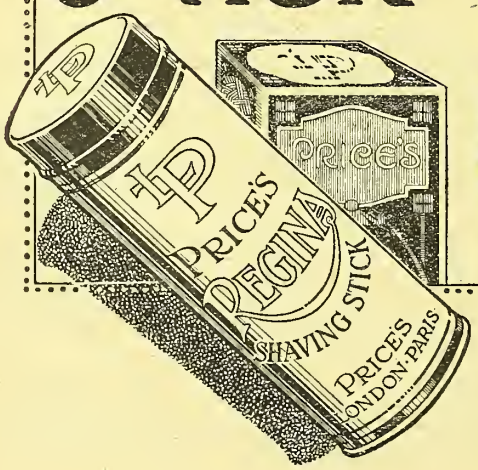

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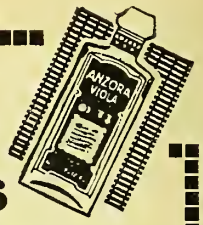

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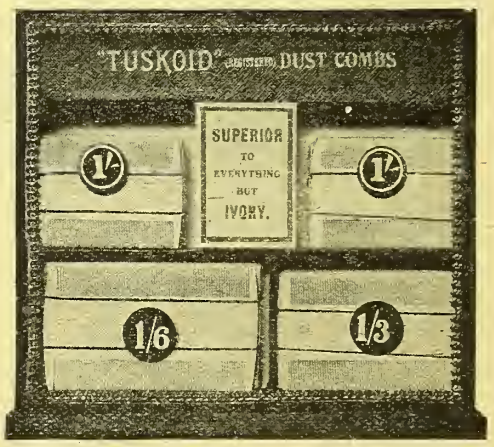

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The astonishing feature of the trade depression is that the sales of this series have hardly fallen off at all.

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Write TO-DAY for Tariff and Coloured Illustrations and investigate our Scheme.

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LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP A complexion soap.	10/-	1/-
PROLACTUM For the lips.	10/-	1/-
PARSIDIUM JELLY For wrinkles.	10/-	1/-
ALLACITE of ORANGE BLOSSOM A dressing cream.	22/6	2/6
BORANIUM A hair tonic.	22/6	2/6
SILMERINE Hair curling fluid.	22/6	2/6
CLEMINITE For a face lotion.	22/6	2/6
COLLIANDUM For a face tint.	22/6	2/6
PERGOL A deodorant.	22/6	2/6
STALLAX For a shampoo.	22/6	2/6
JETTALINE For clearing the skin.	31/6	3/6
PHEMINOL A depilatory.	36/-	4/-
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MENNALINE For the eyelashes.	36/-	4/-
MERCOLIZED WAX A face cream.	31/6	3/6
STYMOL For oily complexions and blackheads.	36/-	4/-
BARSYDE Dandruff eradicator.	22/6	2/6
TAMMALITE For grey or faded hair.	22/6	2/6
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BICROLIUM For whitening the hands.	22/6	2/6
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No.			P.A.T.A.
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6.	,, ,, ,, Pink	18/-	2/-
7.	,, ,, Trial Size	5/6	7½d.
22.	,, Nail Polish Stick, in metal tube	13/6	1/6
8.	,, ,, Powder	13/6	1/6
9.	,, Polishing Paste, Pink	18/-	2/-
10.	,, ,, ,, Plain	18/-	2/-
11.	,, Liquid Nail Enamel	22/6	2/6
13.	,, Cuticle Comfort ...	18/-	2/-
14.	,, Nail Bleach Powder	18/-	2/-
15.	,, ,, Rouge ...	18/-	2/-
16.	,, Compact Manicure Set	27/-	3/-
17.	,, Travelling ,, ,,	84/-	9/6
18.	,, Boudoir ,, ,,	168/-	19/-
31.	,, Cold Cream ...	18/-	2/-

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Montreal and New York.

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72/- gross **HEALTH SALT** 5 gross at 66/-

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(Best—Separable)

8/- doz. 9/- with sprinklers. **HAIR TONIC** FREE SHOWCARDS

(Rosemary, Jaborandi, and Cantharides)

Goods sent by return in FREE CASES. CARRIAGE PAID on £5 Orders. 2½% Discount for Cash with Order.

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G. B. KENT & SONS, LTD.

Are known the World over as the Largest Manufacturers of

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WHITE AND COLOURED SPLITS, OPAQUE AND TRANSPARENT BAUDRUCHE. SPRINKLERS. GLASS BOTTLES OF ALL DESCRIPTIONS

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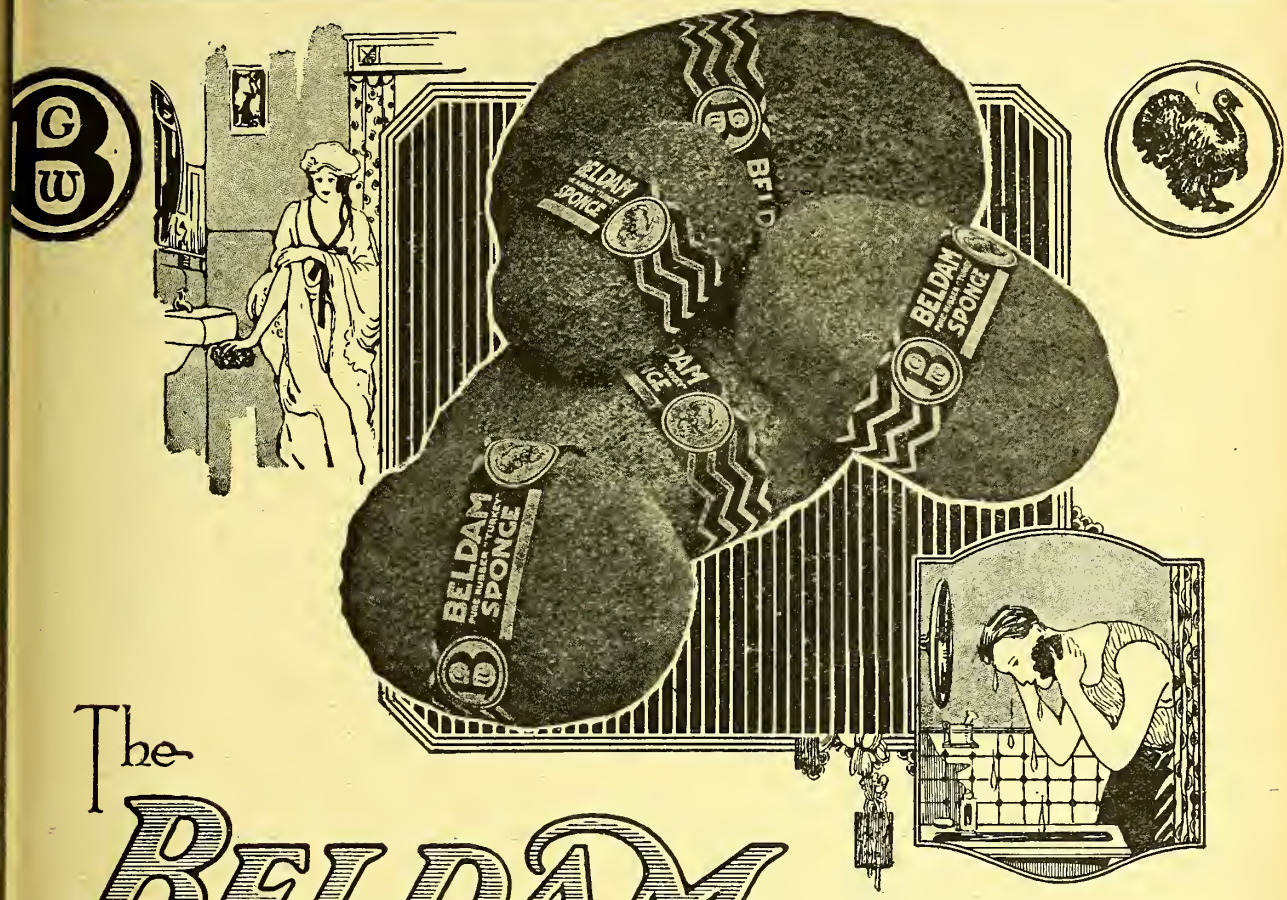

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MADE by a British firm by a patent process from pure rubber, these sponges have won their way into favour by their durability, long life and soft texture.

Purchasers of Beldam Sponges are always impressed by their wearing qualities, and the unanimous opinion is that Beldam Sponges last very much longer than other makes.

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The ordinary sponge is supplied in five sizes and sold at popular prices. A patent rough-smooth sponge, rough on one side and smooth on the other, is also supplied in three sizes retailed at protected prices.

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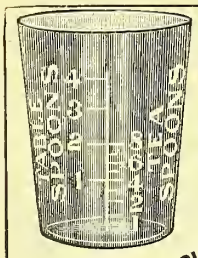

FRONT

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PACKED IN CARTONS OF 1 DOZEN EACH.

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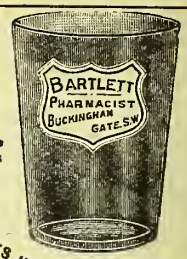
ADVERTISE YOUR BUSINESS IT WILL PAY YOU!



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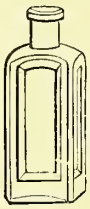
3 dozen with Chemist's Own Name ..	.. 10/9	per dozen
4 " " " " " ..	.. 10/6	"
8 " " " " " ..	.. 10/-	"
12 " " " " " ..	.. 9/9	"
Without Chemist's name (not less than 1 doz.)	.. 8/8	"

All Carriage Paid (U.K.), packages free. Cash with Order 10% discount. 5% one month prompt, 8 months net.

OBTAINABLE FROM—L. J. WHITE, 7 Torrington Park, London, N.12, from whom a sample named "Perfection Medicine Glass" can also be had post free for 10d. in stamps. The sample shows the style for naming, and will readily sell in your shop at a profit.

HERBERT'S GLASS WORKS (Wholesale & Export Inquiries Only) 76 Orpingley Rd., London, N.7. ESTD. 1910.



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Medical Flats, Panels, Vials, Poisons.
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Wholesale and Export. *Samples and Prices on Application.*

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GLASS BOTTLES for ALL TRADES, at CUT PRICES, IN STOCK.

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Limes, Kalis, Essences, Panelled and Plain Flats, Ovals, Mexicans, Medicals, Lubins, Poisons, Corn Solvents, Salines, Carlsbad Squares (with and without Stoppers), Mag, Cits. Rounds, Lysol Bottles in fine Amber, Tablet Bottles, Provence Oil Bottles, Fancy Salad Creams, &c. &c.

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CLINICAL THERMOMETER

International Exhibition Awards:—

12 GOLD MEDALS
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Sole & Exclusive Agent for Argentina, Uruguay, Paraguay and Brazil:

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KIRBY'S LEMONADE TABLETS

Refreshing and Sparkling Lemonade, made in a minute at a cost of one penny per glass.

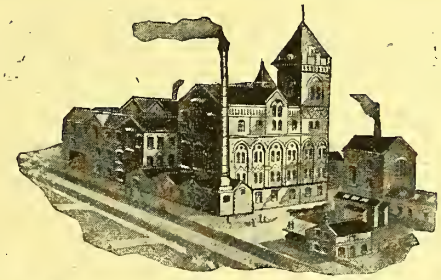
No sugar required.

Each bottle contains sufficient tablets to make 12 glasses of Lemonade.

Shall we send you a free Sample bottle?

8/6 per dozen. Retail price 1/-per bottle.

H. & T. KIRBY & Co., Ltd.,
Newman House, WILLESDEN GREEN, LONDON, N.W.2.

"John  Bull"

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Malt Extract and Cod Liver Oil

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Supplied in Bulk, Jars, Cardboard Containers, &c.

MALT EXTRACT POWDER. MALT FLOUR, specially manufactured for INFANTS' and INVALIDS' FOODS.

PAINE & CO. LTD., ST. NEOTS, HUNTS.

A. C. COSSOR & SON

(ESTABLISHED 1859).

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Manufacturers of Clinical Thermometers for over 60 years.

CONTRACTORS TO ALL GOVERNMENT DEPARTMENTS.

"ACCOSON" WORKS, VALE ROAD, LONDON, N.4.

Telephone 1880 Tottenham. *Telegrams:* "Fracosson, Phone, London."

P.A.T.A. NOTICE.

18 Tavistock Square, W.C. 1.

August 5, 1921.

The following revised prices come into force on dates specified below:—

	Minimum Retail Price.	Minimum Wholesale Price.
Allen & Hanburys, Ltd, Preps.—		
Size	Each.	Doz. net.
10-oz. "Allenburys" "Bynol"	2/6	22 6
20-oz. ,, ,,	4/6	40/6

Minimum Wholesale prices come into force, August 5.
,, Retail ,, ,, ,, August 26.

F. C. Calvert & Co.'s. Preps.—		
8d. bar Prickly Heat Soap	8d.	6/-
1/3 ,, ,, ,,	1/3	11/3

Prices came into force August 1.

Ralty Home Dyes

"Press the Bulb and start dyeing."

USING Ralty Dye is simplicity itself, if you can use a fountain-pen filler, you can use Ralty—it's just the same. A thin filter-cloth encloses the dye powder, and the colour can only leave the tube *in solution.*

The colour is rich, even and fadeless, and can be made bright or subdued by simply pressing the bulb.

Housewives everywhere are asking for Ralty Dyes. Supply them and get a good profit! "Once bought, always bought," is the retailer's experience.

WRITE for SAMPLES & PRICES

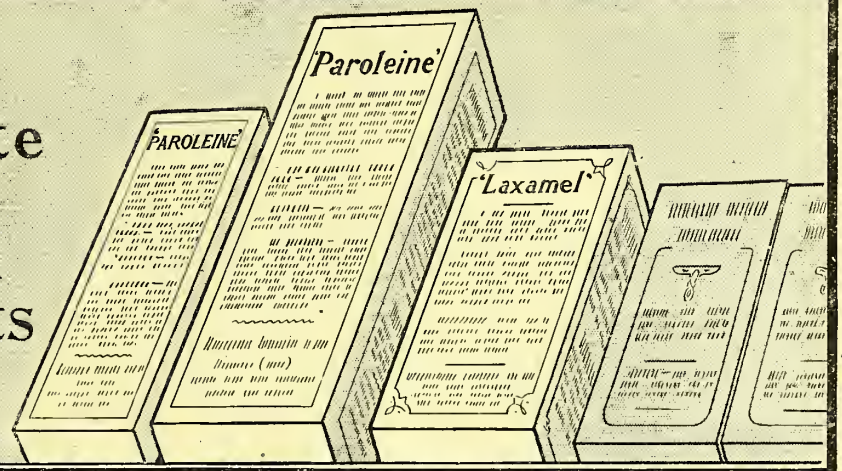
Art Showcards, Counter Boxes and strong advertising are making the Ralty Dyes an easy and profitable line for the Trade. Write direct to:—

ECROYD & COMPANY

RALTY WORKS, FARNWORTH, BOLTON.

A Profitable Counter Display

The Elite of Paraffin Products



TRADE **'LAXAMEL'** MARK

An appetising, jelly-like, laxative confection. Its introduction results in a regular demand. Especially suited to children and ladies because it is pleasing to the taste and gentle in action.

In large glass jars, at 24/- per dozen (subject)

TRADE MARK **'PAROLEINE'** BRAND

LIQUID PARAFFIN

A refined liquid paraffin of the utmost purity. Colourless, tasteless, odourless. Readily taken by children and fastidious invalids.

In 4-oz. bottles, at 18/- per dozen (subject)

BURROUGHS WELLCOME & CO., LONDON

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THE BRITISH DRUG HOUSES LTD.

'EASTERN FOAM'

The Cream of Fascination is now in great demand, and in view of the special advertising which has been placed for the holiday months, Retailers are advised to look to their stocks, both of 1/4 and of the 3d. (sample) size.

SPECIAL TERMS FOR QUANTITIES WITH DISPLAY MATERIAL.

Please write for particulars.

Pharmacists who would like one of the new show stands in colours (as illustrated) are invited to apply for same.

22-30, Graham Street, City Road, LONDON, N.1.

THE CHEMIST AND DRUGGIST
ESTAB 1859

A WEEKLY JOURNAL OF PHARMACY AND OF THE CHEMICAL AND DRUG TRADES.

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

SUBSCRIPTION RATE

TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy, 9*d*. post free; *Diary*, 10*s*. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martins Ltd."

Revista apare în fie care Sâmbătă. Pretul abonamentului este 20 shillingi, franco, pe an, pentru care abonatii primesc şi un "Calendar" de anul nou. Preţul unui singur essemplar e un shilling.

Prix de 1 abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 20s., franco.

Il prezzo dell'abbonamento annuo è di 20 sc. franco, e s'intende per un numero settimanale del periodico, ed un esemplare del diario annuale.

Précio de suscrición 20 chilines anuales. Se publica los Sábados. Número suelto 1 chilin. Tambien se remite a los suscritores una vez por año el "Almanaque de Referencia."

TERMS FOR ADVERTISING may be obtained on application to the Publisher.

Head Office: 42 CANNON STREET, LONDON, E.C. 4

Telegrams: "Chemicus, Cannon, London." Telephone: Central 3617 (3 lines).

Branch Offices: 49 County Buildings, Old Millgate, Manchester. (Telephone: City 52)
Melbourne and Sydney, Australia.

Contents

No. 6 Series 2167 Vol. 95

Births	51	Irish News	41
Books, New	39	Italian News	44
Business Changes	41	Italian Tariff	63
Chemists' Defence Association	44	Legal Reports	45
Colonial and Foreign News	43	Marriages	51
Correspondence:		New Companies	46
Letters	68	Observations and Reflections	53
Legal Queries	70	Personalities	51
Miscellaneous Inquiries	70	Pharmaceutical Society of Great Britain:	
Dangerous Drugs Act	49	Council Meeting	59
Deaths	51	Examination Results	61
Editorial Articles:		Pharmaceutical Society of Orange Free State	47
Opticians' Panel Scheme	54	Retail Pharmacists' Union	48
Dangerous Drugs Regulations	55	Retrospect	70
Safeguarding of Industries Bill	56	Scottish News	41
Assisting Hospitals	56	Summer Outings	48
English News	39	The New Europe	57
French News	42	Trade-marks	52
Gazette	45	Trade Notes	52
Information Department	52	Trade Report	64
Insurance Act Dispensing	47	Westminster Wisdom	50

New Books.

Copeland, E. B.—*The Coco-nut.* 8¾ in. × 5⅝ in. Pp. 225. Illustrated. Second edition. 20*s*. net. Macmillan & Co., Ltd., St. Martin's Street, London, W.C. [We referred to the publication of the first edition of Professor Copeland's book in THE CHEMIST AND DRUGGIST, January 2, 1915, but, as the author reminds us, since then the Great War has very greatly enhanced the importance of the coco-nut industry. Fats and oils of all kinds were needed in great quantities, not only for the feeding of the armies, but on account of the glycerin obtained from fats and employed in the manufacture of explosives. The result has been to promote the preparation of the best qualities of coco-nut oil and copra, as the glycerin content suffers if these products become acid owing to faulty preservation. The author is satisfied that the prospects before the industry are larger in scale and scope than ever before. The treatise is a good guide to the cultivation of the coco-nut and the preparation of the products—toddy, coir, copra, and oil.]

English and Welsh News

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Railway Letters on Sunday

The Postmaster-General informs us that he has received representations that retail traders, who are open on Saturdays and who are in the habit of making up their orders for the following week after closing hours on Saturday evening, are suffering some inconvenience through the discontinuance of letter collections on Sunday, owing to the fact that their wholesale agents do not receive their orders until after the first post on Monday, and that the replenishment of their stock is consequently delayed. He points out that the "Railway Letter" post, which is in operation on the majority of railways in the United Kingdom, affords a method of securing earlier delivery of correspondence in cases of the kind mentioned. Letters sent by the "Railway Letter" post must not exceed 3 oz. in weight and are handed in at the passenger booking office at any railway station on the companies' systems. On arrival at the town of address either they can be called for at the station or they will be put into the nearest post office letter-box by the railway company. For instance, a letter handed in on Sunday evening at Brighton in time for the 7.35 P.M. train, addressed to Smithfield Market, could be called for at London Bridge station on arrival at 9.17 P.M. if the envelope is marked "To be called for," or would be delivered by the first post next morning if the envelope is marked "To be posted on arrival." A railway letter will be passed on by one company to another and despatched by the next available train if the station of address is on a different line from the station of acceptance. A fee of 4*d*. is charged by the companies on every railway letter, in addition to postage at the ordinary rate (2*d*.). The fees must be prepaid, the postage in stamps and the railway fee in cash, on handing the letter to the booking clerk.

Contracts

The following tenders have been accepted by the bodies named:

Admiralty.—Brook, Parker & Co., Ltd., tablets.

Bradford Education Committee.—G. & F. A. Wilman, chemists, spectacles.

Crown Agents for the Colonies.—Brook, Parker & Co., Ltd., drugs and galenicals.

West Bromwich Guardians.—Southall Bros. & Barclay, Ltd., drugs.

Poisonings

The following cases of fatal poisoning have been recorded since our last report:

At Taunton, Samuel R. Chapman, a relieving officer, committed suicide by taking potassium cyanide.

A verdict of "Suicide while of unsound mind" was recorded at an inquest on the body of Sarah Hatwell, Barking, who died from the effects of drinking spirit of salt.

Birmingham

The Birmingham Chamber of Commerce is asking for an explanation of the proposed increase of the price of gas.

More than one pharmacist found business rather slack on Tuesday, and so closed his establishment shortly after mid-day.

Dr. F. B. Winfield, O.B.E., whose wife gave birth to a daughter on July 27, is the son of Mr. G. F. Winfield, chemist and druggist, Solihull. Mrs. F. B. Winfield took the degrees M.B., Ch.B., in 1919.

Widespread sympathy is felt with Mr. E. Bland Place, Moseley Road, whose father, as recorded in last week's issue of the *C. & D.* (p. 51), has passed away at the venerable age of eighty-five. Mr. Place, senior, died at "Clareville," Pickering, the residence of another son, Mr. H. F. Place.

C C

Leeds

The Court of the Clothworkers' Company of London has made a grant of 1,000*l.* to Leeds University towards relieving the financial pressure until more normal conditions obtain.

In the course of an address to the delegates of a Friendly Society who met in Leeds on August 1, Mr. H. G. Hutchins (High Chief Ranger) criticised the Insurance Acts. He said that some of the evils associated with the panel system would be remedied if every member of the medical profession appreciated his obligation to the patients, and suggested that it would seem to be necessary to curtail the number of panel patients which may be allotted to individual practitioners. In a subsequent interview, Mr. Hutchins explained that he had heard many serious complaints of want of attention on the part of panel doctors. "Under the Act," he added, "the Friendly Societies are paying a sum that should ensure attention to their members as good as that given to private patients. This is far from being the case, although a large proportion of our branches are paying as much to the doctors as they are in sick benefits to the patients. This is an astonishing fact. It means that the Act, which was brought into being to succour the weak in their time of need, has only resulted in benefiting the doctors."

Liverpool

Miss Hay (Exors. of Thomas A. Hay, High Street, Wavertree) is recovering from an attack of pneumonia.

Bank Holiday witnessed a break-up of the drought, and a general re-dressing of windows has ensued.

Record holiday traffic, though by no means record expenditure, is the experience locally of railway and steamboat companies.

A photographic group taken at the Scarborough Conference is on view in the window of the Exchange Station Pharmacy, where it has attracted much attention.

Persistent demands for methylated spirit are causing great annoyance to pharmacists. The police propose to apply to the Home Office to increase the restrictions on its sale.

A party of members of local wholesalers' staffs is spending a holiday in Somerset, Devon, and Cornwall. The number of unemployed assistants in the retail is, unfortunately, on the increase.

Mr. Thomas Postlethwaite, Ph.C., Southsea, in writing to a Liverpool colleague on the subject of "dumping" (*C. & D.*, July 23, p. 68), has recalled his early association with the city. Mr. Postlethwaite served his apprenticeship in Birkenhead.

Mr. Arthur Mortimer, President of the Harrogate Pharmaceutical Association, has been on a short visit to Liverpool, where he attended, in company with Mr. H. W. Stiles (Doncaster), a Rotarian executive conference. Mr. Mortimer is spending a quiet holiday on Walney Island, off Barrow-in-Furness.

The local Press is voicing the grievance of the Wallasey tradesmen that they do not receive their due share of local patronage. Sixty per cent. of the Wallasey residents go to business in Liverpool, and the local shops are closed almost before the evening has begun. High rates and early closing do not combine well.

"Holliday's Everton Pharmacy," 45 Heyworth Street, Everton Village, has been purchased by Harold Lomax, Ltd., and will be run under qualified management. Kodak & Rexall agencies have been acquired. Opened some eighty years ago, it was contemporaneous with "Old Mother Noblett's Famous Toffee Shop" close by, where Everton toffee was first made.

Manchester

Mr. V. Cromack, Oxford Road, has disposed of his branch business at Moss Lane East to Mr. Harrison, Wilbraham Road, Chorlton-cum-Hardy, who is making it a branch of his existing pharmacy.

In the windows of a large firm of grocers is being shown a list of prices of various household commodities, together with a statement of the "exorbitant" prices charged by chemists. The statement is wide of the mark in respect of certain prices actually charged by chemists, and the weapon is a dangerous one to employ.

Mr. J. A. P. Nidd, son of Mr. J. H. Nidd, chemist and druggist, Rochdale Road (a past-President of the Manchester Pharmaceutical Association) has received the degree of Bachelor of Science (in engineering) at Manchester University. Mr. Nidd, junior, was the only candidate who gained a first-class B.Sc. in this subject at the recent examination. His sister, Miss M. V. Nidd, has advanced a stage in her examinations in dentistry.

Sheffield

The majority of the Sheffield candidates at the July Qualifying examination were unsuccessful.

There is opposition among the Rexall agents in this district to the offer made by way of varying their contract.

The latest form of municipal trading is the sale of a preparation for the destruction of flies: two pennyworth may be purchased at a time, and this latest manifestation of public enterprise does not commend itself to traders who are expecting a 33*s.* rate in the near future.

Mr. Charles A. Gardner, chemist and druggist, proprietor of the Sheffield Magnet Co., was the defendant in an action at the recent Leeds Assizes, where judgment for 1,375*l.* was given against him for refusing to accept the balance of a delivery of magnetic steel. Mr. Justice Greer remarked that the defendant believed he had good reasons for allowing the matter to come into court.

Miscellaneous

Fire.—A fire broke out recently, from an unknown cause, on premises occupied by James Lyne Hancock, Ltd., rubber manufacturers, in Moreland Street, London, E.C. The damage was almost entirely confined to the ground floor.

"P.D." Swimming and Cricket Clubs.—A successful dance was held at the Imperial Hotel, London, W.C., on July 25, under the auspices of the swimming and cricket clubs of Parke, Davis & Co. Among the visitors who attended were the President of the company (Mr. James E. Bartlett) and a number of representatives and friends. Cards were provided for those who wished to play, and much fun was obtained through various attempts to inflate balloons and the distribution of paper streamers.

Wages in the Wholesale.—An Industrial Court was held at Westminster on July 27 to hear applications for reductions in wages by the Drug and Fine Chemical Manufacturers' Association. The reasons given were increased foreign competition and falling off of demand due to present trade conditions. The decision will be issued in due course.—Notices have been posted in London wholesale druggists' of a reduction from August 5 of wages of 10*s.* a week for men, and others *pro rata.* The graduation of girl workers is in future to be up to twenty-one, and not eighteen as formerly. These reductions are subject to the decision in the Industrial Court.

Spirit Duty (Voluntary Hospitals) Grant.—The Ministry of Health and the Scottish Board of Health are prepared to receive applications from voluntary hospitals for grants in respect of payment of duty involved by the use of duty-paid spirit or drugs containing duty-paid spirit for medical and surgical purposes in these hospitals during the year 1920. Forms of application have been sent to those hospitals to which grant was paid last year. Any other hospital which desires to make application should communicate with the Secretary to the Ministry of Health, Whitehall, or the Secretary to the Scottish Board of Health, Edinburgh, as the case may be.

Institute of Chemistry.—The pass-list for the July examinations of the Institute of Chemistry shows that the following candidates have been elected Associates of the Institute: In the branch of general chemistry, A. N. Campbell, B.Sc., J. J. Doolan, B. B. Evans, B.Sc., P. G. T. Hand, J. W. Jenkin, W. Pugh, B. P. Ridge, S. S. Woolf, B.Sc.; in the branch of metallurgical

chemistry, G. P. Storer; in the branch of organic chemistry, F. Kenyon, F. J. Sheldon, A.R.C.S., B.Sc.; in the branch of the chemistry of food and drugs, C. W. Martin, P. M. Mooney, B.Sc., Elsie Woodward; in the branch of chemical technology, D. D. Smith; in coke-oven practice, J. W. Whitaker, B.Sc.

Commercial Travellers and Week-end Tickets.—Interest has been aroused among commercial travellers by the railway companies' restoration of week-end tickets as from August 19, but disappointment is felt that the concession does not carry with it the former privilege of a return ticket at a single fare. The National Union of Commercial Travellers has been informed by the Railway Clearing House that the return ticket will be issued at a cost of fare-and-a-third, and the fees for the certificates and books of vouchers necessary to obtain these tickets will be 1*s.* and 5*s.* respectively—double the charge made at the time the tickets were withdrawn (in 1916). Commercial travellers can obtain fuller details from the secretary of the Union, St. Bride Institute, Bride Lane, London, E.C. 4.

Poplar Public Health Report.—The annual report of the medical officer of health of the Metropolitan borough of Poplar, covering the year 1920, states that under the Sale of Food and Drugs Acts two samples of vinegar were found to be adulterated with water to the extent of 10.3 and 34.5 per cent. respectively; one sample of "heavy magnesia" consisted of heavy magnesium carbonate. A large quantity of barium carbonate paste has been and is being distributed to applicants for the extermination of rats and mice. The amount of electrolytic disinfecting fluid manufactured during the year was 39,255 gallons (strong); before distribution it was diluted to half-strength. This "broken-down" fluid costs about ½*d.* a gallon to produce. The sum expended on bottles and corks amounted to 91*l.* 13*s.* 2*d.*

Ancient Mortar Exhibited.—A correspondent has forwarded us cuttings from recent issues of "The Yorkshire Herald" describing and illustrating the bell-metal mortar made, according to an inscription that it bears, by William de Towthorpe in 1308. This beautiful specimen, one of the treasures of the York Museum, was described in The Chemist and Druggist, I., 1900, p. 168, and I., 1903, p. 172; for the benefit of those of our readers who have not access to these volumes it may be stated that the weight of the mortar is 76 lb., that it is inscribed on the upper and lower rims, and that it disappeared for at least two periods, rendering the tracing of its pedigree a matter of some difficulty. It has lately been exhibited under the auspices of the Yorkshire Philosophical Society.

Irish News

Belfast

The Balrothery Guardians and Council, on the direction of the Minister of Labour, Dail Eireann, who said that the appointment was a contravention of the Belfast boycott, have cancelled the appointment of Mr. C. McMullen, Belfast, as analyst, and have decided to re-advertise the position.

A committee meeting of the Ulster Retail Drug Trade Association was held in the Chemists' and Druggists' Rooms, 11 Waring Street, on July 26, Mr. W. E. Wilson (Vice-President) in the chair. Other members present were: Messrs. W. J. Rankin, J. C. Culbert, W. C. Dobbin, J. Moffet, S. Suffern, A. Wilson, C. Abernethy, and the secretary. Correspondence was read from Stephen Smith & Co., Ltd., John Gray & Co. (Belfast), Lonsdale Mineral Water Co., Capsuloids (1909), Ltd., J. Grossmith & Son, Ltd., J. B. Williams Company, A. & F. Pears, Ltd., Winox, Ltd., and J. Robson, Ph.C. (Belturbet). Mr. A. McClure, Ph.C. (Newry), and Mr. J. D. McClelland, L.P.S.I. (Randalstown), were elected members of the Association. Discussion took place on the wholesale terms of unstamped patent medicines and other matters.

Scottish News

Brevities

A girl named Young has died in Glasgow Western Infirmary as the result of eating poisonous berries while on a holiday at Milngavie.

According to an article on "charm stones" in the "Glasgow Evening News" of July 30, Scotland is peculiarly rich in stones believed to be endowed with healing virtues.

Miss May Ventners, daughter of Mr. J. W. Ventners, chemist and druggist, East Wemyss, was successful at the recent R.A.M. and R.C.M. examinations held in Edinburgh.

Mr. Nicholas S. Craig, son of Mr. Nicol M. Craig, chemist and druggist, Minto Street, has passed his Final examination at Edinburgh University for the M.B., Ch.B., degree.

We are requested to announce that entries for the competition for the Scottish travellers' bowling trophy should reach Mr. J. T. Simpson, 268 Crown Street, Glasgow, on or before August 16.

The Scottish Beekeepers' Association has decided that a fair average price for first-grade section and extracted honey would be 2*s.* per lb., and for second-grade 1*s.* 9*d.* per lb. It is estimated that there are some 11,000 beekeepers, with 37,000 hives, in Scotland. A stock of domestic bees was sent to Shetland in August 1920, as until then no domestic bees had been found in the island and no wild honey bees had been observed.

The annual competition of the Scottish Chemists' Bowling Association for the Ayrton cup will be played in Dundee on September 7. The time of play will be announced later. Competitors are reminded that entries, which should be accompanied by the fees (14*s.* per rink), close on August 31, and anyone wishing to take part but unable to "fix up" a rink is requested to communicate with the secretary, Mr. J. A. Cochrane, 279 Easter Road, Leith.

In the "Glasgow Evening Times" appeared lately a cartoon depicting a Greenock man, who had been away from his native town for some time, standing in the middle of the street and gazing in bewilderment at the shop-front of a chemist whereto are affixed advertisements of non-alcoholic beverages. It appears that the spot was once the site of a public-house; and the wanderer exclaims, "Fancy mountain dew being superseded by sooking bottles!" It happens that a modern pharmacy in West Blackhall Street does occupy such a site: hence, perhaps, the cartoon, which has afforded the proprietor of the shop and his friends considerable entertainment.

Business Changes

Mr. T. J. Woodcock, chemist and druggist, 8 Church Plain, Great Yarmouth, has opened a branch in Caister Road.

On August 8 the offices of the British Wax Refining Co., Ltd., will be removed to the company's works, 31 St. John's Road, Redhill, where all correspondence should be addressed.

MM. Moureu and Lepape have examined the rare natural gases of Alsace-Lorraine, and their general conclusions confirm previous theories. The five elements, nitrogen, neon, argon, krypton, xenon, are always found together and in similar proportions. Helium is an exception to this "law of constants," because it is one of the stable residues of the disintegration of radio-active bodies, and these are unequally distributed in the crust of the earth.

French News

(From the "C. & D." Paris Correspondent.)

THE LABORATORIES of Parisian hospitals are to be brought up to date. The authorities have named a committee to examine the question, consisting of General Inspector Grau, three hospital doctors, and four hospital pharmacists, MM. Goris, Grimbert, Tiffeneau, and Bougault.

PHARMACEUTICAL ASSOCIATIONS throughout France are having their attention drawn to the desirability of acquiring a "Maison des Pharmaciens" as permanent quarters for the General Association. The idea is to form a sort of co-operative building society, with 100-fr. shares, and to erect a special building.

PROFESSOR DUFFOUR, of the Bordeaux Faculty of Sciences, in a publication on the "Forests of Gascony," gives his views on the principal characteristics of the constituents of the resins of the coniferous trees. What are described as pinic, sylvic, pyromaric, α-colophanic, and β-sylvic acids are, in his opinion, abietic acids in various degrees of purity.

BENZINE, M. Artault de Vevey told the Therapeutical Society, is excellent not only for destroying parasites such as *Phthirius pubis*, *Pediculus claviceps* (monkey lice), *P. capitis*, and *P. vestimenti*, but also against the acari of the itch. A benzine lotion, followed by benzine pomade on the affected parts, may be substituted for the classic alkaline and sulphur treatment.

A RECENT RECIPIENT of a sword of honour is Professor Béhal, who has been elected a Member of the Academy of Sciences. The sword was the gift of the pharmacy students, among whom the Professor has always been very popular. The hilt is embossed on one side with the serpent and palm-tree (emblems of pharmacy), and on the other with a group allegorical of the healing art.

A TRAVELLING PHARMACY.—The recent fatal railway accident at Beaucourt Hamel induced one of the passengers of the wrecked train to suggest to the authorities that a portable pharmacy for first aid be carried on every train. A Parisian daily negatives the suggestion, remarking that a surgical instrument case would be just as appropriate, and that a surgeon would be the next indispensable requisite.

M. DROUET, pharmacist at Saint Fort-sur-le-Né (Charente), was motoring with his wife, son, and daughter on June 19 when, at a level-crossing near Angoulême, an engine ran into the car. The petrol tank caught fire, and M. Drouet and his son were so badly injured that they died during the night at the Angoulême Hospital. Madame Drouet is in a critical condition. The daughter escaped injury.

THE EFFORTS OF THE AUTHORITIES in procuring the necessary information to estimate the burden of taxation continue. In one department the authorities sent a little question-paper to each pharmacist asking: (1) Total sales, (2) Amounts invoiced, (3) Usual percentage on purchase prices, (4) Have you any income from sources outside your business, (5) Details of standing charges, (6) How many dependents (family), with dates of birth of each.

CACODYLATES IN MEDICINE.—According to M. Toraude, the pioneer in the utilisation of cacodylates in therapeutics was the pharmacist Louis Claude Cadet de Gassicourt. He publishes in a recent article the original "mémoire" presented by Cadet to the Academy of Sciences in 1760 on the "smoking liquor of arsenic," which, he points out, was principally cacodyl oxide mixed with a small quantity of pure cacodyl or dimethylarsine.

M. LARUELLE took his degree as Doctor of Pharmacy at the Lille Faculty with a thesis on "The Apothecaries of Rouen from the Middle Ages to the Revolution," which forms a history of several centuries of pharmacy in the old capital of Normandy. It includes the biography of Nicolas Lemery, and also of many other Norman apothecaries—the family of Le Chandelier, for instance, eleven of whom were master apothecaries of the Rouen Guild.

TWO PARISIAN PHARMACISTS have been appointed chevaliers of the Legion of Honour—M. Marc Louis Langlais, seven times mentioned in Army orders, and M. P. M. T. Longuet. M. G. E. F. Loiseau, who is second-class pharmacist-major in the Corps of Occupation at Constantinople, is the third recent recipient of the red ribbon. M. J. C. Dumouthiers, awarded the Military Medal, was auxiliary pharmacist in the Army, and inventor of an anti-carbon-dioxide intoxication apparatus.

THE SINCEREST FORM OF FLATTERY.—The Germans are, it appears, founding a Society of the History of Pharmacy on the lines of the existing Parisian body; while the Faculty of Pharmacy at Nancy is forming a Museum of the History of Pharmacy somewhat analogous to the "Musée Fialon" of the Paris Faculty and the Wellcome Historical Medical Museum in London. A "Museum of the History of Medicine" is to be inaugurated at Paris in connection with the "Congress of History of the Healing Art."

A PHARMACY MUSEUM.—The fact that the Paris Faculty of Pharmacy now possesses a handsome collection of old drug-pots, etc. (presented by M. Fialon some years ago), explains the circular recently issued by M. Bruntz, Dean of the Nancy Faculty of Pharmacy, in favour of a "Museum of the History of Pharmacy" for the capital of French Lorraine. The Dean has, it appears, already collected some 300 objects, and asks further contributions—old books, documents (diplomas, labels, etc.), photographs, drug-pots, weights, measures and scales, glassware, and obsolete drugs and medicaments.

THE MUSÉE PAUL DUPUY at Toulouse contains an interesting feature in the collection of drug-pots, etc., formerly belonging to the pharmacy which from 1623 to 1764 was attached to the Jesuits' College. When the Jesuits were expelled from France the business was sold to a M. Vidailhon, apothecary, who transferred it to the rue Cujas (Toulouse). Some twenty-five years ago M. Dupuy purchased the collection intact, with the exception of a five-gallon Theriaca vase, which was secured by the Musée St. Raymond (Municipal Museum). The fine Louis-XIII. oak and walnut "droguier" bears the motto, *Litho etiam miscet venena manus*, with the monogram "IHS" surmounted by a cross. The numerous drawers bear the original inscriptions. In the centre is a cabinet for the precious stones once used in pharmacy and the *odores aromaticæ*. In the niches and on the shelves are the drug-pots, mortars, old bottles, the professional syringe, the ancient scales and weights, etc. A few old portraits and engravings relating to the healing art have been added, and some ancient books, Jean Schrœder's "Pharmacopœia," printed at Lyons in 1649; a manuscript journal of operations and medicaments kept from 1787 to 1790; and a bundle of "Notes d'Apothicaire," from 1639 to 1793.

ROUSSEAU, CHEMIST.—The twelfth volume of the annals of the Jean Jacques Rousseau Society includes a voluminous scientific work entitled "Institutions Chymiques." This was discovered by M. Théophile Dufour about fifteen years ago among papers preserved by Mlle. Nicole, the great-granddaughter of Paul Moulton, with whom Rousseau left his documents in 1778. The inscription on the wrapper described these as "Lessons on Chemistry, followed at Montpellier by Jean Jacques Rousseau, in his own writing." But this, M. Dufour points out, is erroneous. These 1,206 pages are not notes of lectures, but an original work. At Les Charmettes Rousseau studied algebra and astronomy; botany he had always liked, and we know that one day the bottle in which he had mixed quicklime and orpiment to make "sympathetic ink" burst in his face. No doubt he learnt some rudiments of pharmacy in aiding Madame de Warens to prepare medicaments and drugs for "her poor." When he went to Madame Dupin's, he tells us, "I took up chemistry. I followed several courses of M. Rouelle's lectures with M. de Francueil, and we scrawled on paper as best we could about this science of which we scarcely knew the elements." Can M. Dufour's documents be the "scrawls" in question?

Colonial and Foreign News

PROFESSOR DR. O. SCHMIEDEBERG, the well-known German pharmacologist, died on July 13 in Baden Baden, aged eighty-two. His name is particularly associated with research work on digitalis, and he was teacher of pharmacology in the University of Strassburg since its creation, by the Germans in 1872, until 1918.

THE "WIADOMOSCI FARMACEUTYCZNE," July 1, Poland's leading pharmaceutical journal, refers to the articles on Poland contained in the *C. & D.*, April 2, and reproduces a translation of the article on the Polish chemical industry. The same number contains some caustic comments anent an important British firm, which is addressing its circulars and price-lists to "Warsaw, Russia."

THE MINISTER OF FINANCE in Austria proposes to increase still further the duty on alcohol. Prior to the war a duty of 1.40 kr. per litre of pure alcohol was levied, which has been successively increased to 100 kr. The special duty levied by various towns on all forms of alcohol has also increased enormously. In 1914 Vienna levied a tax of 0.14 kr. per litre of pure alcohol; now the duty amounts to 50 kr. Under the existing conditions the total consumption of alcohol for all purposes amounts to scarcely one-quarter of the pre-war requirements.

BALKAN BUSINESS.—In a report circulated among its members, the chemical section of the Union of Czecho-Slovak manufacturers draws attention to the fact that German exporters are developing a febrile activity in their endeavours to capture the Balkan markets. It is stated that the German "Balkan Association" has organised a body of agents who are flooding the various Balkan States, since it is Germany's intention to capture those markets which are in direct communication by rail with Germany, in order to make good the loss of its overseas trade consequent on the loss of its mercantile marine, which it cannot so easily replace.

AUSTRIAN DRUG JOURNALS.—With the beginning of the present month, Austria's oldest pharmaceutical journal ceased to exist as a separate publication, the high costs of production having induced the general Austrian Pharmaceutical Society to merge the official journal with Dr. Heger's "Pharmazeutische Post." The "Zeitschrift des Allgemeinen Oesterreichischen Apotheker-Vereins" was founded in 1847 by a Viennese professor of pharmacy, and was taken over by the Society in 1863. The "Pharmazeutische Post," which now becomes the official journal, was founded in 1868 as a private enterprise by an Austrian pharmacist, and since 1882 has been under the editorship of Dr. H. Heger.

NORWEGIAN RESTRICTIONS ON ALCOHOL.—As a result of the introduction of prohibition in Norway, alcohol can be obtained only on a medical man's prescription, and is supplied solely through the medium of the pharmacies. To prevent the use of fictitious prescriptions, the medical board has issued a circular to the effect that all prescriptions calling for wine or other alcoholic beverages must be made out on the doctor's usual prescription-form, with printed heading, and after signing his name in full the prescriber must also affix his stamp below his signature. Such prescriptions may not be filled by pharmacists on Sundays or on holidays, nor during the night, unless the prescriber states on the prescription that the beverage in question is urgently required by the patient.

GERMAN EVASION.—The following significant advertisement is to be found in a leading German journal devoted to the interests of the chemical and pharmaceutical industries:

Export Levy

A large firm in a neutral country, provided with capital, and commanding an excellent sales organisation, especially in France, Belgium, England, and Italy, entirely devoted to German interests, is prepared to undertake the complete or partial manufacture, as well as the sale, of chemical products in conjunction with first-class German firms. The manufacture and the finishing of partly manufactured products can be undertaken for those products which do not require the setting up of very extensive new plant. Two small establishments are available.

ADVERTISING MORPHINE AND COCAINE.—The Bavarian Minister of the Interior has decided that advertisements in the pharmaceutical Press, in which pharmacists offer to exchange stocks of morphine or cocaine for other products, are illegal, inasmuch as such exchanges are contrary to the provisions of the recent law regulating the sale, etc., of narcotics. The person who offers, as well as the one who acquires, these drugs by exchange are liable to be punished, unless such transactions comply with the legal provisions—*i.e.*, the issue of a permit to effect the exchange or sale in question.

PHARMACEUTICAL INDUSTRY IN RUSSIA.—It is reported that towards the close of the past year four national pharmaceutical factories and four private laboratories were in active operation in the industrial district of Petrograd. The private laboratories, as well as two of the national establishments, were engaged exclusively in the manufacture of saccharin, of which the production averaged 65 kilos. a month. In addition, 150 kilos. of iodine was manufactured, and the following preparations: Chemical products, 789 kilos.; liquid medicines, 14,924 kilos.; ointments, 2,444 kilos.; plasters, 65 kilos.; and medicinal powders, 7,509 kilos. These figures purport to give the output during a period of three months.

PHARMACY IN POLAND.—A Government decree regulating the procedure in opening new pharmacies in the former Russian portion of the new republic has been issued. It is practically based on the old Russian system, but includes certain features of the Royal Polish order of 1844, which was abrogated under Russian rule. In places with a population not exceeding 15,000 one pharmacy is permitted for every 6,000 inhabitants; where the population amounts to between 15,000 and 25,000 there may be one pharmacy per 7,000 inhabitants, the number of pharmacies decreasing progressively until 10,000 is allotted to each pharmacy in places with a population of over 98,000 inhabitants. Pharmacies belonging to sick clubs and other public bodies are now to be included, and all applicants are placed on the same footing.

"DANGEROUS DRUGS" IN AUSTRIA.—The Austrian Federal Government has issued a decree, dated July 12, whereby in accordance with Article 247 of the Treaty of St. Germain the Hague Opium Convention of January 23, 1912, becomes a legal measure in that country. This introduction is followed by the French text of the agreement in question. In connection with this decree, regulations have been issued by the Minister for Social Administration and by the Minister of Finance with regard to the application of the provisions of this agreement. In the first place, the following definition is given of the drugs coming within the scope of this measure—viz., "raw and prepared opium, morphine, cocaine and their salts, as well as all official and non-official preparations containing more than 0.2 per cent. of morphine or 0.1 per cent. of cocaine; heroin, its salts and preparations containing over 0.1 per cent. of heroin, as well as all derivatives of morphine, cocaine or their salts, and all other opium alkaloids, which may be capable of displaying the same deleterious effects as the aforesaid products, if used without proper caution." Persons who deal in these drugs, or employ them in the course of manufacture, are required to keep a register of all supplies received, amounts sold, or used in manufacture, with particulars as to the amounts, by whom supplied, or to whom sold. Pharmacists, however, are exempted from this obligation so far as the supply of these drugs on prescriptions is concerned. Pharmacists, scientific institutes, chemical and pharmaceutical factories, and wholesale houses possessing a licence to deal in drugs, are permitted to import any of these narcotic drugs without further restrictions. The importation by other persons is permitted only after obtaining a special licence, in each single instance, from the Minister for Social Administration. The exportation requires in every case a licence, to be issued by the same authority, in which the name of the recipient must be stated; in addition, in applying for a licence to export the application must be accompanied by a certificate issued by the competent authority of the country of destination to the effect that the consignee is authorised to import the narcotic drug in question.

Index Folio 161

Italian News.

RESTRICTIONS on the export of olive oil from Italy have been abolished.

AT AN INDUSTRIAL FAIR held in Milan recently interesting exhibits of drugs, pharmaceutical products, essential oils, and heavy chemicals were made, both of national and foreign production.

SALE OF NARCOTICS.—By a new law, initiated by the Italian Council of Ministers, any person not specially authorised to sell cocaine, morphine, or other similar narcotics is liable to imprisonment for two to six months, and a fine of from lire 1,000 to lire 4,000.

GERMAN "CURE FOR CANCER."—Through a special disposition of the Sanitary Department of the Minister of the Interior, the German firm Wolf & Schmidt, of Cologne, was authorised to export to Italy its "Anti-meristen Schmidt" and "Nov-anti-meristen" for "curing cancer."

TAXES ON MEDICINES.—The manufacturers of pharmaceutical specialities and products, alarmed by the imposition of new taxes, met at Milan recently to arrange a general protest. It was pointed out at the meeting that the new tax of 20 per cent. treats medicines as articles of luxury, such as perfumes, etc., and this is considered a marked injustice.

MORE REPARATIONS DIFFICULTIES.—During the war the Italian dye industry gained a considerable impetus, and four large new works, employing several thousand workmen, were erected in Lombardy and in Liguria. Since the Armistice, and in view of the resumption of German imports of dyes, the manufacturers endeavoured to persuade the Italian Government to introduce some measure of protection for this new national industry. However, the very powerful textile interests succeeded in preventing any steps of this kind. The dyes manufacturers also pointed out that the Government was selling the dyes, supplied by Germany as reparation chemicals, at prices with which the Italian works could not compete. Now the Socialist organisation of the chemical workmen of Italy has taken the matter up, demanding protection of the Italian dyes industry. The textile interests now point out that, if the German dyes should prove too dear, the Italian textile industry will be unable to compete in foreign markets. In this connection it may be mentioned that it was proposed, in 1919, to impose a duty of 300 gold lire per 100 kilos. on all German dyes imported into Italy.

THE (DRUG?) MERCHANT OF VENICE.—After studying the curious old document, dated 1583, which M. Rambaud (of Poitiers) has discovered and published (a price-list issued in Venice), one begins to wonder whether Antonio was not more or less engaged in the drug-trade. The city was in those days a great centre for the commerce supplying not only Italy, but many other lands; indeed, we have actual evidence of French apothecaries visiting Venice in 1580-82. The fact that the drugs are all specified in Latin, and that the familiar drachm and ounce are the weight units, make this sixteenth-century tariff much more comprehensible to the average English pharmacist than (say) a modern French "metric" price-list. The document was drawn up by a company composed of two medical men, an apothecary, and two druggists. These submitted it to the approbation of the Guild of Apothecaries and Druggists, and subsequently to the Council of Ten, whose licence was necessary for export trade. The prices are quoted in sols or sous (half-pennies), the purchasing power of which was probably about fifteen times that of their modern equivalents. The lengthy list includes raw drugs, electuaries, confections, syrups, lozenges, pills, waters, ointments, etc. A few items are cited as they appear in the original text.

Aloes suc., sol 4 drachma.
Assæfetidæ, sol 1 dr.
Cantharidum, pp. sol 4 dr.
Saponeæ forma solida, sol 4 u[ncia]
Trochisci de rhubarbero Mesué, sol 8 dr.
Mixturæ pectoralis, sol 4 u.
Pilulæ de rhubarbero Mesué, sol 8 dr.
Unguenta de plumbo preda paleæ, sol 4 u.
Olea de castoreo. Mes., sol 6 un.

Index Folio 162

Chemists' Defence Association, Ltd.

A MEETING of the directors of the Chemists' Defence Association, Ltd., was held on July 27, Mr. John Keall in the chair. Mr. F. Hindle, 48 Fishergate, Preston, was co-opted a director in place of Mr. J. W. Deakin, deceased. The meeting dealt with a number of claims in connection with accidents in selling and handling drugs, etc. In one case a member had had to pay his customer 60*l.* compensation, besides legal costs, the whole amounting to 78*l.* The member had forfeited his right to re-imbursement by his neglect of Rule 4, which stipulates that notice of an error must be sent to the Association within forty-eight hours of its coming to the notice of the member. The directors having dealt with the case *ex gratia*, gave instruction that particulars should be reported for the guidance of other members. Another case was settled, involving a payment of 110*l.*, the member being reimbursed. Two small claims in which damage to customers' clothing was involved were settled. A customer of a member complained that confection of sulphur sold to him caused severe diarrhœa. The C.D.A. analyst tested a specimen of the confection, and found it to be of B.P. quality. If the customer presses his claim the Association will protect the member. Several other cases were reported. The secretary reported that since last meeting free legal advice had been given on the following subjects: Right to business connection; registration of trade-mark; debt (for goods supplied); income-tax; returned cheque; non-delivery of goods; warranty label; burglary insurance; detention of motor-van; income-tax deductions; compensation for loss of s.v.r. on railway; Shops Act; contract (sale of business); Health Insurance; Venereal Disease Act; trade rights in title; Health Insurance contribution; Workmen's Compensation Act Insurance; returned empties; easements of house property; title of pharmacy; Rents Act, 1920; Lotteries Act, 1823; lease (dilapidations); trade-mark rights; lease (assignment of); subpœna, and fees for attending court; lease (renewal); recovery of legal expenses; securing possession of premises; recovery of debt; insurances; damage to shop door by workmen; purchase of books; liability of wages to employee. The directors considered the "free analysis" arrangements of the Association. It was decided that the original arrangement of one sample per shop per annum free shall stand, and that the testing of additional samples as to fitness for sale should be undertaken for members in future at the reduced fee of 10*s.* 6*d.*, the Association paying the difference between that sum and the analyst's fee. It was pointed out that the fee charged to the C.D.A. for each sample was more than 50 per cent. greater than the fee to be charged to members, and that members would therefore get a very substantial advantage. The question of drug warranties was referred to, and it was intimated that satisfactory negotiations were in progress between the Association on behalf of members and the wholesale trade. The subject of extending the operations of the Association to other classes of insurance was considered. It was decided that, subject to satisfactory arrangements being made, the Association should undertake such other insurances as appertain to the business of chemists. The chairman and secretary were instructed to take any necessary action and report to the next meeting. A large number of transfers of shares were authorised, and many new shares were allotted to new members.

POLISH CURRENCY IN DANZIG.—The new convention between the free town of Danzig and Poland contains a proviso which proclaims that German currency is replaced by Polish currency: the Polish mark becomes the sole legal currency, and all engagements to pay in German money have to be met by payment in Polish marks. It is forbidden to enter into any engagements, or to carry out transactions, on the basis of German currency. In view of the great difference in the rate of exchange, merchants should bear this change in mind.

Legal Reports

Shops (Early Closing) Act Case.—At Grimsby Police Court, on July 29, Boulton & Skelton, Ltd., chemists, Freeman Street, were summoned for two breaches of the Shops (Early Closing) Act, 1920. According to the police evidence, the defendants' shop was open on July 2 after the hour fixed by the local closing order (8 P.M.), and a customer, sent in by an inspector, was supplied with a bottle of brilliantine at 8.20 P.M. Several people entered the shop, and at 8.30 the inspector went in and asked for some photographic papers. These were handed to him by an assistant, and when he disclosed his identity the assistant called Mr. Skelton and the secretary of the Company, who said they thought the closing time was 9 P.M. for chemists. A card which should have been displayed in the shop could not be found. The bench imposed a fine of 10*s*. on each of the two summonses.

A Wholesalers' Warranty.—At Staindrop Police Court, on July 29, Wilkinson & Simpson, Ltd., wholesale druggists, Newcastle-on-Tyne, were summoned at the instance of the Durham County Council for having given a false warranty in respect to a sale of magnesia to Coulthard & Morton, grocers, Gainford. A Council inspector proved the purchase of six packets of a substance labelled "Magnesia," which was afterwards submitted to the county analyst. Finding that the substance was deficient in magnesia to the extent of 57.9 per cent., he returned to the shop and was shown an invoice containing a printed statement to the effect that all goods of the company's manufacture were warranted pure and of the nature, substance, and quality described within the meaning of the Sale of Food and Drugs Acts. Mr. Cyril Stock, F.I.C., said that the substance submitted to him as "magnesia" was magnesium carbonate. A letter was read from the defendants, who were not represented in court, admitting the offence, expressing regret, and stating that by mistake the wrong article had been sent. The magistrates imposed a fine of 7*l*. 7*s*., with 6*l*. 2*s*. 6*d*. costs.

Starch Claim.—Before Mr. Registrar Dell, in the Mayor's and City of London Court, on July 28, a claim was made by Snowdon & Sons, Ltd., chemical manufacturers, 85 Gracechurch Street, E.C., against M. Bilcliffe, 7 Gayford Road, Shepherd's Bush, for 1*l*. 17*s*. for starch supplied. A representative of the defendant appeared, and said the amount of the debt was not admitted, the defendant having written to the plaintiffs asking them to take the starch away on the ground that it was not up to the quality she required. Plaintiffs' witness said they had never heard anything of this until now. Defendant's witness, in answer to the Registrar, said she was not present when the starch was ordered. Plaintiffs' representative said that the order came through one of their travellers, who had since left their service. Defendant's witness said it was not disputed that starch was delivered, but what was wanted was table-linen starch, and that had not been delivered. The Registrar thought the better way to get rid of the plaintiffs' claim was for the defendant to pay a small sum for carriage to settle the matter. The case was accordingly adjourned for the defendant to return the starch.

German Dye Contracts.—Judgment was given in the Chancery Court, London, on July 28, by Mr. Justice Russell in the test-cases which raised the question of the liability of enemy companies under contracts for the supply of dyes. The claimants were the Calico Printers' Association, Ltd., the Bradford Dyers' Association, Ltd., the British Cotton and Wool Dyers' Association, Ltd., Scott & Co., Ltd., and the executors of Thomas Welch, and the respondents were the controllers of the Badische Co., Ltd., the Bayer Co., Ltd., the Griesheim Elektron, Ltd., Kalle Co., Ltd., the Berlin Aniline Co., Ltd., and Meister Lucius & Brunig, Ltd. The cases were before the Court for twenty days from December 7, 1920, to February 3, 1921. The summonses were taken out by the controllers who were appointed to carry out the winding-up of the businesses of the companies, which had been directed under the Trading with the Enemy (Amendment) Act, 1916, and were brought for the purpose of obtaining the direction of the Court as to how they should deal with the claims put in by various English manufacturing companies for damages for breach of contract in the delivery of dyes which had been ordered before the outbreak of war and were not delivered. The defence of the companies was that as they were dissolved on the outbreak of war because they were enemies a continuation of the contracts would involve intercourse with the enemy, which was illegal, and that, the contracts being suspended, the time for claiming damages had not arrived. The claimants replied that they treated the companies as principals, and not as agents, of the German firms who formed them, and that even if the suspensory clauses came into operation there had been an anticipatory breach of the contracts by reason of the winding-up orders, which put it out of the power of the companies to carry out the contracts. There were thirty-one cases, which were grouped into those contracts relating to indigo and those relating to other dyes. Mr. Justice Russell dealt with the history of the Bayer Co., Ltd., concluding that it was an offshoot of a German company which controlled it. The company at the outbreak of the war assumed an enemy character, and contracts with it became dissolved. This company had the best chance among the respondent companies to escape the enemy taint, and where they failed the others could not hope to succeed. There were four indigo contracts which stood on a different footing, as synthetic indigo was being manufactured in England by Meister Lucius & Brunig, Ltd., at the outbreak of war at Ellesmere Port. The main ingredient, phenol-glycine, was only made in Germany, and deliveries in 1914 on pre-war contracts were made out of manufactured stock, and stock subsequently manufactured from phenol-glycine in stock. Later on the works were unable to obtain the materials, and deliveries ceased, though manufacture was intermittently continued until Ellesmere Port Works were closed in 1916. It was well known in the indigo trade that the manufacture of indigo depended on phenol-glycine, which came from Germany, and his Lordship declined to believe that the claimants under these contracts did not know this. In these circumstances he thought that the indigo contracts did not stand on any different footing from the other contracts, either on the question of illegality or of frustration of contracts. He held, therefore, that in all the contracts before him the claims failed, and he directed the controller to reject them.

Gazette

Bankruptcy Acts

RECEIVING ORDER AND ADJUDICATION

JOWETT, F. T., 3 Russell Square, and 24 Middle Street, Brighton, lately at 31 and 33 Broad Street House, London, chemical manufacturer, formerly trading as The City and Midland Manufacturing Co., and now as the National Manufacturing Co.

Partnership Dissolved

ROWELL, R., BRIERCLIFFE, N., and BROWN, G. H., 7 Bedford Street, Bolton, trading in Nyanza and Sea Foam Toilet Specialities under the style of Nyanza Co.

SPANISH PHARMACOPŒIA.—The Royal Academy of Medicine has appointed the Commission to be entrusted with the task of elaborating the new Spanish Pharmacopœia. It is composed of four medical men, four pharmacists, and two veterinary surgeons, all members of the Academy.

THE INVOICES, furnished by M. Bernard Combarieu, apothecary of Cahors, for medicaments supplied to the local Convent of Carmes in 1744-48, are preserved in the departmental archives of the Lot Department. They were published recently in a French pharmaceutical periodical.

New Companies
and Company News

P.C. means Private Company and R.O. Registered Office

THOMAS ASPINALL, LTD. (P.C.).—Capital, 5,000*l.* Objects: To take over the business of manufacturing, wholesale, and general chemists, druggists' sundriesmen, etc., carried on by T. Aspinall, of Bolton. The first directors are: T. Aspinall, 40 Somerset Road, Bolton, and F. A. Lowe, 32 Harper's Lane, Bolton. R.O.: 6-10 Bank Street, Bolton.

NORMAN V. STOW, LTD. (P.C.).—Capital, 3,500*l.* Objects: To acquire the business of chemists, druggists, and oil and colour men carried on at 83 Queen Street, Newton Abbot, by N. V. Stow. The first directors are: N. V. Stow, Belfield, Forde Park, Newton Abbot, chemist; G. B. Purser, 15 Abbotsbury Road, Newton Abbot, dispenser; A. Sampson, 2 Devon Square, Newton Abbot, builder; and R. Cubitt, Clinton House, Ashburton, draper.

J. C. BELL & CO., LTD. (P.C.).—Capital, 10,000*l.* Objects: To carry on the business of oil, colour, and lead merchants, drysalters, druggists, chemists, producers and refiners of soaps, oils, chemicals, perfumes, petroleum, and their products, polishing and plating chemicals and materials, etc. The life directors are: J. C. Bell, 101 Minstead Road, Erdington; and G. F. Godrich, 102 Lyttleton Road, Stechford. R.O.: 188 Aston Road, Birmingham.

CASEIN (INDUSTRIES), LTD. (P.C.).—Capital, 5,007*l.* Objects: To adopt an agreement with Casein, Ltd., and to carry on the business of manufacturers of and dealers in casein products and glue, etc. The first directors are: H. H. Langston-Jones, 1 Boileau Road, North Ealing, W.; D. Michie, 441 Grove Green Road, Leytonstone; C. C. Clark, 230 Turney Road, Dulwich; and H. C. Dutton, 74 Fordhook Avenue, Ealing, W. R.O.: Culvert Works, Sheepcote Lane, Battersea, London, S.W. 11.

CRICKMAY, MATHIAS & PEPPER, LTD. (P.C.).—Capital, 2,500*l.* Objects: To carry on the business of manufacturing, wholesale and retail chemists and druggists, manufacturers of and dealers in pharmaceutical, medicinal, chemical, toilet, and other preparations, and chemical, photographical, surgical, and scientific apparatus and materials, etc. The permanent directors are: S. S. Shirley, 28 Netherton Road, St. Margarets; T. C. Crickmay, 34 Harlescott Road, Nunhead, S.E.; P. S. Mathias, 63 Wydehurst Road, Addiscombe; and J. W. Pepper, 84 Byne Road, Sydenham. Solicitor: G. Houghton, 63 Finsbury Pavement, London, E.C.

FREESE & MOON, LTD.—At a meeting held on July 27 it was resolved that this company be wound up voluntarily. Mr. H. Button, 61 and 62 Lincoln's Inn Fields, London, W.C. 2, was appointed liquidator.

DR. HOGYES ASBESTOS SOCK CO., LTD.—A resolution that this company be wound up voluntarily was passed at a meeting held at 80-81 Britannia Street, London. Mr. S. H. Bersey, C.A., 53 New Broad Street, E.C., was appointed liquidator.

UNITED DRUG CO.—It is formally announced from New York that the affairs of Mr. Louis K. Liggett, head of the United Drug Co. and of Liggett's International, Ltd., have been placed in the hands of trustees. The decline in the market price of the common stock of the United Drug Co. during the past few days is given as the immediate cause of this action, which, it is explained, has been taken to conserve Mr. Liggett's assets and for the protection of his creditors. It is to be noted that it is the personal affairs of Mr. Liggett, as distinct from those of the companies, that have been placed in trusteeship. Mr. Liggett has issued a statement in which he says that, owing to the decline in United Drug shares requiring margins which he could not meet, he felt it necessary to have trustees to administer his personal assets. He adds that this in no way affects the United Drug Co. or Liggett's International, nor any of their respective subsidiaries, these companies being absolutely sound financially and the situation merely a personal one. It will be remembered that last year the United Drug Co. acquired all the ordinary shares of Boots' Pure Drug Co., Ltd.

LONDON HYGIENIC CHEMICAL CO., LTD., chemists, 121 Gurney Street, Walworth, London, S.E.—A meeting of the creditors of the above company was held recently at the Institute of Chartered Accountants, Moorgate Place, E.C. The liquidator, Mr. S. A. Stallebrass, presided. He said the directors, Mr. Townend and Mr. Sykes, were engaged in the Law Courts, defending a case which had been brought against the company. A creditor asked if the action would make much difference to the assets, and the liquidator replied that he did not think it would. It was an action brought against the company for 700*l.* which the company said they were not liable for. The liquidator said that no statement of affairs had been prepared, but he had a balance-sheet of the company as at May 31, which he thought would be sufficient for their purpose, as a receiver had now been appointed. On May 31 the trade creditors' claims amounted to 9,479*l.* 2*s.* 2*d.*; expense creditors, 339*l.* 11*s.* 8*d.*; cash creditor (Mr. Townend), 6,257*l.* 18*s.* 10*d.*; another cash creditor (Mr. Hackett Smith), 511*l.* 12*s.* 10*d.*; and Barclays Bank were creditors for 3,530*l.*, holding as security the lease of the premises, a debenture, and the guarantees of the directors. The liabilities totalled 20,118*l.* 5*s.* 6*d.* In addition there was the capital of the company, amounting to 25,000*l.* The assets totalled 16,117*l.* 18*s.* 8d., and were as follows: Stock at cost, including bottles, cartons, and labels, 3,821*l.* 5*s.*; sundry debtors, subject to realisation, 7,056*l.* 19*s.* 2*d.*; cash at bank, 63*l.* 13*s.* 7*d.*; cash in hand, 2*l.* 10*l.* 5*d.*; leasehold premises, 2,850*l.*; Ford van, 244*l.* 2*s.* 10*d.*; fixtures, fittings, plant, machinery and trade utensils, 1,336*l.* 14*s.* 8*d.*; stationery and printing in hand, 473*l.* 5*s.*; packing materials in hand, 40*l.* 8*s.*; and yard equipment, 179*l.* The deficiency, therefore, as regards creditors amounted to 4,000*l.* 6*s.* 10*d.*, while as regards creditors and contributories there was a total deficiency of 29,000*l.* 6*s.* 10*d.* Continuing, Mr. Stallebrass said that the company was taken over by the present people in May of 1919, and at the time consisted of a more or less derelict concern. The capital then was 10,000*l.*, of which 9,300*l.* was represented by goodwill and trade-marks. A sum of 15,000*l.* in cash had been subscribed by the directors and their friends, making the present total capital 25,000*l.* The deficiency was accounted for as follows: Goodwill written off, 9,309*l.*; money spent in advertising, 17,141*l.* 7*s.* 10*d.*; loss on trading, 2,549*l.* 19*s.* The company, at the time it was taken over, specialised in a rat-poison, and very large sums were spent in endeavouring to create a business in this poison, but the anticipations of the directors were not realised. Replying to a creditor, the liquidator said that the turnover for the first year was 9,018*l.*, and from May 1920 to May 1921 it amounted to 11,878*l.* 11*s.* 9*d.* The drawings of Mr. Sykes for the first year were 720*l.*, and for the second 820*l.* The other directors had about 50*l.* each. One of the directors had advanced 6,000*l.* in cash, and taken up 8,720 shares, for which he had also paid in cash. The stock consisted partly of raw material. There was about 1,000*l.* worth of soap and 600*l.* worth of raw material, the remainder being manufactured articles, such as disinfectant powders and fluids, bay-rum, rat-poison, etc. There was no scheme of reconstruction to put before the creditors, but negotiations were pending for the sale of the business as a going concern. A resolution was passed confirming the appointment of Mr. Stallebrass as liquidator, and appointing a committee of inspection consisting of the representatives of Street & Co., Geo. Johnson & Son, and Ford, Shapland & Co., Ltd. The following are among the creditors: Street & Co., 5,800*l.*; Crosfield, Jos., & Co., Ltd., 60*l.*; Brooks, Peel & McDougall & Yalding, Ltd., 56*l.*; Johnson, Geo., & Son, 455*l.*; C.B.O. Chemical Works, 65*l.*; Brunner, Mond & Co., Ltd., 148*l.*

Index Folio 164

Insurance Act Dispensing

A Record of matters concerning Chemists' interests in the National Health Insurance Acts

Reports from Local Centres

ENGLAND

Kent.—At a meeting of the Insurance Committee, on July 27, it was reported that the Ministry of Health had deducted 5*l.* from the grant due to a panel chemist for failure to carry out the regulations, and 10*l.* each from the sums due to two doctors for issuing prescriptions not signed by themselves.

London.—At a meeting of the Insurance Committee, on July 28, the Medical Service sub-committee reported on the case of a panel doctor the majority of whose prescriptions, it was stated, had not been signed by him, but by the lady who acted as his surgery attendant. The Committee found that when a patient asked for medicine to be repeated the lady inquired whether the patient was feeling better, and if the answer was in the negative she would advise that the same mixture be continued. If the patient said he or she was feeling much worse, she would advise that the doctor should be consulted. She used her discretion as to ordering repeats, and admitted that in a few instances she had prescribed for patients upon the occasion of their first visit to the surgery, but these cases would have been patients suffering from colds. She considered herself competent to diagnose patients' complaints in view of the fact that she had been in the practitioner's service for eight and a half years, but questioned as to whether she had any medical or nursing qualifications, she replied that she had none whatever. She added that the practitioner was aware of the methods she adopted. The practitioner said he had never given her instructions so to act. The committee recommended that the Minister of Health be informed that it would be prejudicial to the efficiency of the medical service of insured persons if the practitioner was allowed to remain on the medical list. This was agreed to. The Finance Sub-committee recommended the payment of accounts amounting to 240,029*l.* 15*s.* 3*d.* Among these was 16,583*l.* 11*s.* to chemists. This was agreed to. The sub-committee also reported that they had sanctioned advances of 680*l.* and 355*l.* to the Panel and Pharmaceutical Committees respectively on account of administrative expenses for the current year. The action of the sub-committee was approved. The Medical Service sub-committee reported that the following had been elected members of the Pharmaceutical Committee until 1922 : Messrs. B. Abelson, G. B. Barnard, J. T. Humphrey, A. H. Jenkin, J. Keall, A. R. Keith, A. R. Melbuish, J. Milner, J. Murison, C. A. Noble, W. E. D. Shirtliff, H. Skinner, P. Sparks, J. A. Thompson, W. B. Trick, and A. J. Wing.

Sheffield.—The Panel Committee, reporting on the examination of 4,824 prescriptions, find that the vast majority are normal, although a few liniments, dressings, and malt and cod-liver oil have been ordered in larger quantities than usual. Ten practitioners who ordered substantially above the average have been dealt with, three appearing before the Committee; the explanations have been accepted and no further action is recommended. The Committee express their appreciation of the manner in which Mr. Meadows has prepared the Bureau's reports. They consider that the large number of ordinary prescriptions inquired into entails a great waste of time. Payments to chemists for July amounted to 1,162*l.* 17*s.* 11*d.*

Somerset.—At a meeting of the Pharmaceutical Committee held at Weston-super-Mare on July 28, Mr. G. W. Hodder was re-elected chairman and Mr. Fred Orchard secretary. Mr. G. W. Hawkins, Minehead, was co-opted a member of the Committee. It was resolved to ask the Insurance Committee to form a Dispensing sub-committee, Messrs. F. E. Cooper and E. Widgery being the nominees of the Pharmaceutical Committee.

Yarmouth.—The Insurance Committee has appointed Mr. A. E. Richmond, St. Peter's Road, as its representative on the East Anglian Joint Prescriptions Pricing Committee. The Pharmaceutical Committee has been appointed as follows : Messrs. T. J. Woodcock, H. Palmer, P. R. Hill, H. E. Goddard, F. E. Whitfield, A. E. Richmond, T. T. Richards, and F. Liver. Mr. Richmond was elected chairman and Mr. Whitfield secretary, both of whom were appointed to the Pharmaceutical Service sub-committee, and Messrs. Hill and Richmond to the Joint Services Sub-committee.—At the meeting on July 29 of the Insurance Committee the clerk reported that a clinical thermometer ordered by a practitioner and supplied by a chemist to an insured person who had been receiving domiciliary treatment was disallowed by the Pricing Committee. The clerk thereupon pointed out that, prior to April 30, clinical thermometers had been allowed to persons receiving domiciliary treatment, and the Pricing Committee replied that it would be well if the Insurance Committee communicated with the Ministry of Health. The clerk was awaiting a reply. This action was confirmed, and the Committee instructed the clerk to write further, pointing out that they considered neither the doctor nor chemist should be penalised.

SCOTLAND

Dumfriesshire.—At a meeting of the Insurance Committee, recently, the clerk reported that, in forwarding to the Scottish Board of Health a statement of the position of the Drug Fund for the medical year 1920, he had inquired what sum the Board was prepared to approve of the Committee granting by way of war bonus to chemists on the panel for the medical year 1919 from the balance remaining at the credit of the fund for that year. After he had read the reply, the meeting, on the motion of Mr. Wm. Brown, seconded by Dr. Mungo Bryson, recommended : "That the Committee grant a bonus of 200*l.* to the chemists on the Committee's panel for the medical year 1919, and do allocate that amount in proportion to the total amount of accounts for all prescriptions dispensed by chemists on the Committee's panel during that year."

Fife.—At a meeting of the Insurance Committee, recently, a discussion took place on the duplication of prescriptions, which one medical member held to be unnecessary now that a fresh prescription has to be issued each time. It was agreed that the medical men should meet the chemists and have the questions discussed, afterwards putting their proposals before the Committee.

Pharmaceutical Society of the Orange Free State

A GENERAL MEETING was held at Vickers' Buildings, Bloemfontein, on June 28. There were present : Mr. Taylor (President), Mr. Weller (secretary and treasurer), Messrs. Greenwood, Carter, Greaves, Gunn, Fyfe, Jones, Wolfsohn, Reid, Goldberg, and Hurst (visitor). The President welcomed Mr. Hurst and hoped that he would be a frequent visitor to their meetings. Mr. MacAdam was proposed as member of the Society by Mr. Taylor; this was seconded by Mr. Weller, and he was unanimously elected. There was a lengthy discussion on hours of business. The hours generally observed are : 8 A.M. to 6 P.M. ordinary days, 8 A.M. to 1 P.M. and 5.30 to 6.30 Saturdays, 9.30 to 11 A.M. and 5.30 to 6.30 P.M. Sundays. A minority, however, have been opening from 7 to 8 P.M. on Sunday evenings; they eventually promised to fall in line. No report having been received from the Criminal Investigation Department as to their action regarding the sale of paregoric by general dealers, the matter was held over until the next meeting. A member inquired whether he would be justified in cutting the retail price of any article he might be overstocked with. The feeling of the meeting was that this would lead to general cutting and the possibility of the prices agreement falling through. The meeting agreed to the following prices : Kolynos, 1*s.* 6*d.*; Nutrine, 2*s.* 3*d.*; Zam-Buk, 1*s.* 9*d.*; Californian Fig Syrup, 2*s.* 9*d.* and 5*ss.*

Retail Pharmacists' Union

Executive Meeting

A MEETING of the Executive of the Retail Pharmacists' Union was held at the Union's headquarters, Tavistock Square, W.C., on July 27, Mr. John Keall (chairman) presiding. Before commencing the business a portrait of the first chairman, the late Mr. J. W. Deakin, was unveiled. It bears the following inscription on a brass tablet: "John William Deakin, First Chairman, Retail Pharmacists' Union. Elected April 14, 1921. Died April 15, 1921." After a few appropriate remarks from the chairman, the portrait was allotted a conspicuous and permanent position on one of the board-room walls. A request from the Early Closing Association for a contribution was considered, and it was decided to forward 2*l.* 2*s.* The secretary announced that a deputation from the R.P.U. had accompanied a deputation from the Early Closing Association to the Home Secretary in connection with the Shop Hours Act. The Home Secretary promised that the Government would try not to let the Act expire in December next. The E.C.A. hope to secure an agreed Bill embodying the present hours.

DANGEROUS DRUGS ACT REGULATIONS

Particulars of action by a sub-committee of the Executive were reported. The sub-committee had sent a circular to members of Parliament disapproving certain features of the Regulations. Mr. A. T. Davies, M.P. for Lincoln, it was reported, had given valuable assistance in the House of Commons. Agreements regarding a test case after September 1 were considered. It was agreed that, as the Pharmaceutical Society was the proper body to take proceedings in the Courts, action by the R.P.U. be deferred. The secretary pointed out that in the meantime chemists must accept the Regulations.

Following protests, the Government has promised consideration of a proposal to limit the operations of the Navy and Army Canteen Board to the pre-war Army canteens. A deputation from the National Drug and Chemical Union was received. They suggested that the R.P.U. should enter into an arrangement with them to form a conjoint body to determine questions of wages and conditions of service. The chairman informed the deputation that the Executive would consider the request, and the result would be communicated to them as soon as possible. Afterwards the suggestion was fully discussed and a small committee appointed to meet the assistants' committee. It was reported that the Chancellor of the Exchequer is not prepared to make any changes in the incidence of the medicine-stamp duty at present. The formation of branches of the Union in Hull, Pembrokeshire, and Leeds was approved, and the secretary given a general authority regarding the recognition of branches. With regard to branch organisation, a discussion took place on alleged difficulties in county districts. To avoid clashing with local branches of the Pharmaceutical Society it was agreed to discuss the matter with a committee of the Society's Council, and a small committee was appointed.

PROPRIETARY ARTICLES PROPAGANDA

A report from the Propaganda Committee of the Proprietary Articles Trade Association was referred to, in which the following recommendation which had been adopted by the P.A.T.A. was made: "Retailers are urged not to give window or other displays to articles not on the protected list." This was confirmed, leaving certain debatable parts of the communication to be considered at the next meeting.

It was reported that steps were being taken to reduce the number of members on the Insurance Committees. A satisfactory reply from the Minister of Health had been received regarding the representation of chemists on the Committees. In reply to a letter from the Incorporated Society of Pharmacy and Drug Store Proprietors, the secretary was instructed to reply that the rules of the Union could not be altered to include non-pharmacists as members. The secretary was instructed to inform the South Wales and Monmouth Federation that the Union was in communication with the Pharmaceutical Society on a test case under the Dangerous Drugs Act Regulations. A suggestion from the Leicester and Leicestershire Association on dispensing-charges was discussed, and a committee was appointed to see whether anything could be done to devise a system of pricing prescriptions to secure greater uniformity. A letter was considered which suggested that the Union should act as a clearing-house for the payment of members' London accounts with wholesalers. It was felt that it was not a practical proposition. Various schemes for assisting members in regard to stocktaking, valuations, and other matters were discussed, and the secretary was instructed get further information. Decisions on income-tax difficulties and accountancy problems were postponed. It was suggested that the Union should undertake the collection of debts at a fixed scale of fees—namely, a recovery fee of 1*s.* 6*d.* for each debt, payable in advance. In addition, 5 per cent. to be charged on debts actually recovered. If a solicitor had to be employed the member would pay the costs to the Association, *plus* a 5*s.* fee, up to 10*l.*, and in proportion if over that amount. No legal action to be taken without obtaining the consent of the member. This suggestion was agreed to. A proposal to assist members in trade-mark registration work was considered, and decision was postponed. Miss Braithwaite, Ph.C., was appointed superintendent of the checking bureau department of the Union.

Summer Outings

Newcastle Pharmacists at Warkworth

THE Newcastle-upon-Tyne Chemists' Association arranged a charabanc excursion recently, when a party of sixty ladies and gentlemen, in two charabancs, travelled to Warkworth, where an excellent tea had been provided at the Hermitage Hotel. A vote of thanks for the satisfactory arrangements was accorded to the

secretary, who, in reply, stated that Mr. Kerse and Mr. Simpson had helped considerably. On the return journey the second charabanc ran out of petrol and was stranded until a supply could be found. Eventually the company arrived at the Central Station about midnight. Some of the South Shields and Sunderland chemists did not get home until two o'clock next morning.

MONUMENT TO WURTZ.—A monument to the memory of the great chemist Wurtz has lately been unveiled at Strasbourg, his native town. The Academy of Sciences was represented at the ceremony by Prof. Haller, of the Paris Faculty of Sciences; Prof. Béhal, of the Paris Faculty of Pharmacy; and Prof. Moureu, who recently quitted the last-named Faculty for the Collège de France. It was really a centenary fête, three years overdue, for Wurtz was born in 1818. Wurtz died at Paris, where he spent most of his life. He was for some time Mayor of the "seventh arrondissement" (the Invalides quarter) of the capital. Wurtz's discoveries included the glycols, ethylene oxide, etc.

Dangerous Drugs Act

Commentary on the Regulations

II

THE date when the Regulations come into force, September 1, is getting near, and, though there has been much talk about *ultra* or *intra vires* of the Regulations, it seems quite clear that chemists will have to regard them as *intra vires* unless and until they are proved in the courts to be the contrary.

We commenced this commentary in the Annual Special Issue (June 25, p. 137), and have since received many expressions as to the interest and value of the remarks there made. This will be an appropriate occasion to refer to a slip in the preliminary list of preparations (p. 137, 2nd col.) which are "within" or "without" the Regulations. The two preparations pulv. ipecac. co. and pulv. kino co., which are especially exempted from the Regulations, were placed in the "within" list. The correct position is, however, stated at the bottom of the previous page. We desire to thank those of our subscribers who called attention to the error.

In the interval that has elapsed since the first article of this series appeared further points have been put to us by our readers, and we are forced to the conclusion that the more these Regulations are examined the more foolish do they appear. Had anything like reason predominated in framing them we should have had wholehearted sympathy on the part of every pharmacist in assisting the suppression of what is already illegal distribution. Instead of that, the whole energy available for this part of the business is consumed in trying to comply with these creations of stupidity. Thus the definition of "Possession" is deemed to be sufficient to deter anyone having by him a supply of any of the drugs. The question whether possession on a prescription for a cocaine pile-ointment written some years before and allowed to be unused in the private medicine cupboard will save a private person from being interfered with and fined, is a point no one knows. Then, again, the question of stock and storage does not appear to have disturbed the official mind, though pharmacists will abide by the Storage Regulations of the Pharmacy Act.

One of the inconsistencies of the Dangerous Drugs Act is the power that is placed in the hands of Government officials who, without technical knowledge themselves, are "too proud" to take advantage of the specialised knowledge possessed by the Pharmaceutical Society of Great Britain and the Pharmaceutical Society of Ireland. The prohibition of the retail sale of tinct. opii ʒj., for relieving earache, and the proposed permission to farmers to obtain unlimited amounts of laudanum, have only to be contrasted to show the absurdity of the position.

Record Books

Many chemists are perturbed about the books to be kept, but this was one of the points won by the Pharmaceutical Society. A chemist must keep books according to the Regulations, or, in lieu, enter the sale in the Poisons Book as he always has done, or, in the case of dispensing, in the Prescription Book, but, in addition, he must keep an index of these entries. There is nothing to indicate that it is necessary to classify the references in the index. In other parts of the Regulations separate records are to be kept, but in entering in the Index Book this does not appear to be necessary. What, therefore, is the value of this index, when the Poisons Book and Prescription Book can be so readily consulted? A Purchase Book will be necessary, though it will give no clue for anything but the amounts purchased, since an ounce of morphine could quite easily be disposed of in preparations outside the Regulations. Yet, on the other hand, information about stocks must be available to the officials, but there are no limitations attached thereto.

Dilutions and Strengths

The points to be borne in mind are the strengths and dilutions of the various preparations.

Cocaine is 1 in 1,000; therefore cocain. hyd. 1 in 1,000 is outside the Regulations. The molecular weight of alkaloid and salt allows for a greater strength than this, but the figure given is easily remembered, as 0.1 per cent. cocain. hyd. preparations require to be labelled "Poison" only.

Diamorphine is in the same position, but the margin is not so great. 1.09 diamorphin. hyd. is yielded by 1.0 of diamorphine; hence the preparations such as elixirs, etc., containing 0.1 per cent. of diamorphin. hyd., are outside the Regulations.

Ecgonine is not a drug of commerce.

Morphine.—It was shown fully in the first commentary how the limits differ for every salt, so that it is well to have the percentages or dilutions stated in terms of anhydrous morphine.

Martindale ("Extra Pharmacopœia") gives the molecular weights as follows:

Morphine	... ...	303.263
,,	acetate	399.337
,,	hydrochloride	375.763
,,	hypophosphite	361.311
,,	meconate	860.641
,,	sulphate	758.65
,,	tartrate	774.61

It should be noted, however, that the morphine of the Hague Convention is reckoned as anhydrous, and we propose on another occasion to refer to this matter further.

The question has also been raised as to whether benzyl morphine hydrochloride (peronine), mono-ethyl-morphine hyd.(dionine),ethyl morphine or methyl morphine(codeine) are included within the salts of morphine. By the expressed inclusion under its own name of acetyl morphine it would appear that the salts just mentioned are outside the Regulations.

Another point is that the Regulations apply to cocaine, diamorphine, etc., of definite limitations of strength, and not otherwise; consequently, when it is stated that the authorities may withdraw the authorisation if some regulation is contravened, they cannot withdraw the power still to distribute the drugs below the definite strength unless they interfere with the privileges conferred by the Pharmacy Acts upon a man who has passed the prescribed examinations. If the Regulations profess to do this they are surely *ultra vires.*

Regulations within Regulations

Regulation 11 states that various persons, including hospital pharmacists, are authorised for the practice of their profession or employment to be in possession and supply the drugs. On the other hand, the Secretary of State may exempt from the Regulations any hospital or institution, subject to observance of conditions or orders prescribed. In other words, a hospital pharmacist may supply these drugs on the prescription of his medical officer if he observes a further series of Regulations, these including such absurdities as conveying a morphine suppository to the wards in a locked box.

How simple the whole of the Regulations might have been made is shown by the fact that all that is necessary for an authorised master mariner to do is to make an entry of the administration of the drugs in the log.

Prescription Points

What is the precise meaning of Regulation 5? It states that the prescription must be in writing, dated, and signed with full name and address of prescriber and patient, and the "total amount of the drug to be supplied." Many doctors write for the dose only, ordering a certain number of doses to be sent. It may be assumed that this number multiplying the dose will cover tho point, but it is certainly not stating in terms the amount of the drug. The retention of the prescription is provided for, and this is presumably to be kept for ever, which is absurd.

Index Folio 167

Westminster Wisdom

By the "C. & D." Parliamentary Representative

Dentists Act

This Act received the Royal Assent on July 28.

Railways Bill

Consideration of the Railways Bill, as amended in Standing Committee, occupied the House of Commons on July 27, August 1, 2.

The End of the War

The Prime Minister stated in the House of Commons on July 28 that the date of the termination of the war (except as regards Turkey) will be September 1.

Finance Bill

The third reading of the Finance Bill in the House of Commons on July 29 was the occasion for a debate on the state of the country's finances due to trade depression and extravagant expenditure.

Women Panel Doctors

Sir A. Mond stated in the House of Commons on August 2 that 117 women physicians are at present acting as panel doctors in England and Wales. The number of patients on their lists is 40,686.

Doctors at the Ministry of Health

It was stated in the House of Commons on July 28 that sixty-eight doctors have been appointed in the Ministry of Health since July 1, 1919, of whom eight are no longer in the service of the Ministry. Twenty-four of the sixty-eight were appointed for a term of years, namely :—One for one year, one for three years, twenty-two for five years. The total salaries of the sixty officers still serving is 60,950*l.*, exclusive of war bonus.

Alkali Industry

Mr. Myers, on August 1, asked the President of the Board of Trade when the report of the Sub-Committee on the alkali industry, appointed by the Standing Committee on Trusts, will be published.

Mr. Baldwin replied that it has been decided not to publish this report. The Sub-Committee were unable, owing to the expiry of the Profiteering Act on May 19, to conduct an exhaustive investigation, and it is not desirable to publish an incomplete report.

Insurance Doctors' Payments

Mr. Lyle, on July 27, asked the Minister of Health whether about 2,000,000 insured people, entitled to medical benefit under the Health Insurance Acts, do not appear at all on doctors' lists, from which the inference is drawn that they pay their own doctors; and the type of workers mainly represented by the 2,000,000 and their annual aggregate payments under the Acts.

Sir A. Mond : No, Sir; I fear that the hon. member has been misinformed. There are, of course, always at any given moment certain insured persons who have not yet taken steps to select a doctor, but the number, of which no close estimate can be made, would be at any rate only a fraction of the 2,000,000 mentioned in the question, and the inference to be drawn is not that such persons pay their own doctors, but that they too often delay selecting a doctor until they require treatment.

British Claims against Hungary

It was stated in the House of Commons on July 29 that the total amount of debts declared to the Public Trustee by British nationals in the United Kingdom as due to them from Hungarians is about 3,500,000*l.* sterling. In addition there was property in Hungary before the war belonging to British subjects the value of which has been returned as 10,000,000*l.*, and in so far as this property may have been damaged by exceptional war measures the owner will have a claim to compensation. No Hungarian assets are held by the Board of Trade, but a certain amount of Hungarian property is in the hands of the Public Trustee, and other amounts are recorded with him. It is impossible to give a reliable estimate of the amount that will be realised on the sale of Hungarian property rights and interests held by or recorded with the Public Trustee, but the nominal value of such property is about 1,500,000*l.* sterling. Out of this, such property as is proved to belong to former Hungarians who, under the Treaty of Peace, acquire a new nationality will have to be realised. It will not be possible to make any payment out of proceeds of Hungarian property which will be subject to the charge to be established under the Treaty, until the amount of the claims ranking against the charge has been definitely ascertained.

Postage on Circulars

Mr. Gilbert, on August 2, asked the Postmaster-General whether his attention has been called to circulars issued by Belgian firms in this country to British manufacturers and other firms, offering to print and post circulars, catalogues, company prospectuses, etc., for England in Belgium; whether he is aware that they point out the postage for 1,000 circulars in Belgium to England at the rate of exchange of 47 fr. is 2*l.* 3*s.* 6*d.*, while British postage in this country would be 4*l.* 3*s.* 4*d.*; whether, if such circulars are posted in Belgium, they would have to be delivered by the British Post Office here; and whether, in view of unemployment in this country in the printing trade, he proposes to take any steps to prevent work leaving this country through the present high postal rates.

Mr. Kellaway replied that he had seen a circular letter issued by a printing firm in Brussels which, from the figures quoted, appears to be the one referred to by the hon. member. All circulars posted in Belgium and addressed to this country must be delivered in ordinary course, if prepaid with the proper amount of postage. As he has previously stated, he cannot fix British rates of postage to meet the conditions produced by the depreciated currencies in certain foreign countries.

Opium Cultivation in China

Mr. Stewart, on August 3, asked the Under-Secretary of State for Foreign Affairs whether the Government can give any information as to the position of opium in China at the present time; whether the Chinese Government undertook to put down the cultivation of opium in China when we gave up the export from India; whether it is the fact that great cultivation is being carried on in many Chinese provinces and that smuggling of native opium into Shanghai and Hong Kong is taking place; and what does the Government propose to do to get China to carry out her treaty obligations.

Mr. Harmsworth replied : Papers are now being prepared for submission to Parliament showing the present position of opium cultivation in China. It is the case that China undertook to put down cultivation as the condition on which the export of opium from India was stopped. At that time opium-growing in China seemed to have been satisfactorily suppressed, but I regret to say that recent reports indicate a marked revival in certain provinces, and there is evidence of smuggling of Chinese opium into Hong Kong on a considerable scale. No doubt it is also smuggled into Shanghai. Strong protests have been repeatedly addressed to the Chinese Government, but have hitherto remained entirely unheeded The hon. member is doubtless aware that the League of Nations are now actively interesting themselves in the whole opium question.

The July number of "Farmacia Romana" of Bucharest reproduces the paragraph addressed to Roumanian readers which appeared in The Chemist and Druggist, June 11.

A Pharmacist of Sèvres named Lefortier was the first inventor of incendiary and asphyxiating projectiles, according to M. Gineste. His shells were tested by the French artillery in 1831, but the experiments were far from conclusive. So he did not obtain the recompense of "half a million francs and the managership with a suitable salary of an ammunition factory." Such were his modest demands in the event of success.

Births

MASON.—At "The Nursing Home," Avenue Elmers, Surbiton, on August 2, the wife of J. Howard Mason, chemist and druggist, of a son.

MOIR.—On July 23, the wife of John Moir, M.P.S., 39 Leamington Gardens, Seven Kings, Ilford, of a son.

SIEGER.—At De Lairessestraat, 131, Amsterdam, on July 26, the wife of Dr. W. Sieger (son-in-law of Mr. R. de Greeff), of a daughter (Maria Antonia).

WALTON.—At "Highcliffe," Upper Howard Street, Batley, on July 29, Elizabeth Walton, M.P.S., wife of T. H. Walton (T. H. Walton & Co., Ltd., chemists, Batley Carr), of a son.

Marriages

FITZPATRICK—KINSELLA.—At the Church of the Holy Family, Aughrim Street, Dublin, on July 26, by the Rev. Father Flanagan, C.C., Francis Joseph Fitzpatrick, M.P.S.I., Stoneybatter Pharmacy, to Teresa Kinsella, 237 North Circular Road.

GREENWOOD—PINNOCK.—At Christ Church, West Bromwich, on August 1, H. C. W. Greenwood, M.P.S., Clapton, London, N.E., to Marie Elizabeth Pinnock, West Bromwich.

RITSON—DOWELL.—At Claremount Road Wesleyan Church, Wallasey, on July 30, by the Rev. W. Rushby, M.C., Fletcher Ritson, M.P.S., son of the late Mr. Fletcher Ritson, The Whins, Carlisle, to Bertha, second daughter of Mr. Thomas Dowell, 5 Dean Avenue, Wallasey.

Deaths

DAVIES.—At Colchester, on August 1, suddenly, Mr. Henry John Davies, manufacturing chemist, Dartford, aged forty-nine.

HARKNESS.—The funeral of the late Mr. John Robert Harkness (Harkness, Beaumont & Co., manufacturing chemists, Junction Bridge, Leith), whose death was announced in our last week's issue (p. 51), took place on July 27. A representative gathering assembled, among those present being: Mr. W. L. Beaumont and Mr. R. J. Goudie (the surviving partners of the firm), Mr. Peter Boa, Ph.C., Dr. G. Coull, Ph.C. (Raimes, Clark & Co., Ltd.), Mr. Dey (T. & H. Smith, Ltd.), Mr. Ellis (Pinkerton, Gibson & Co.), Mr. Peter Fenton, F.C.S., Mr. Laing, Mr. J. Lothian, Ph.C., and several members of the staff of Harkness, Beaumont & Co.

HINKSMAN.—At Carluke, on July 31, Mr. John Hinksman, chemist and druggist, High Street. Mr. Hinksman, who qualified in 1871, had been in business in Carluke since 1880. He was widely known in the trade as the proprietor of a popular asthma cure. Mr. Hinksman was prominently associated with the public affairs of his town, being for a long period a member of the parish council and an elder. The strain of the war caused a breakdown in health, and he had been laid aside from active work for nearly a year.

HUNT.—At Highfield House, Castleford, on July 27, Mr. Frederick Thomas Hunt, J.P., proprietor of the Aire and Calder Chemical Works, aged seventy-two. Mr. Hunt, who was the son of the late Mr. William Hunt, the founder of the business, was well known in the West Riding of Yorkshire; in addition to his duties as a magistrate, he had for some time served on the Whitwood urban council.

ROWTON.—Recently, Mr. Henry Rowton, chemist and druggist and dentist, for many years in business in Hall Street, Dudley, Worcestershire, aged eighty-four.

SAUNDERS.—At Fulbeck House, New Barnet, on July 17, Mr. Arthur Saunders, retired chemist and druggist, aged seventy.

Personalities

COLONEL RALPH KEY HARVEY, a director of The British Drug Houses, Ltd., has been elected Master of the Grocers' Company of the City of London.

COUNCILLOR THOS. W. HOLIDAY, sole proprietor of Holiday & Co., manufacturing chemists, Durham, has been appointed a director of Durham City Gas Co.

MR. A. NORMAN HARRIS, manager of the manufacturing laboratories of Lennon, Ltd., at Port Elizabeth, South Africa, has been elected a Fellow of the Chemical Society.

MR. H. WILKS, "West View," Westcliff-on-Sea (representing Thomas Christy & Co., London, E.C. 4), has been successfully operated upon for intestinal trouble, and hopes to resume his journeys in a few weeks.

MR. LEONARD SACHS, pharmacist, of Leonard Sachs, Ltd., Pretoria, Transvaal, is now in London on a business visit, and letters may be addressed to him c/o The National Bank of South Africa, Ltd., Circus Place, London Wall, E.C. 2.

MR. C. W. DYSON PERRINS, D.C.L., son of the late Mr. J. Dyson Perrins (Lea & Perrins, Worcester), has given the sum of 10,000*l.* to erect science buildings at Worcester Royal Grammar School, and 250*l.* for books for the school library.

MR. J. E. SAUL, Ph.C., of Savory & Moore, Ltd., 143 New Bond Street, London, W., refers in "The Lancet" to the Shoreham habitat of the star clover (*Trifolium stellatum*). Dr. G. Claridge Druce showed him some, thirty years ago, that had been gathered on the beach, but Mr. Saul states that his own observation is that the plant is now practically extinct at Shoreham.

MR. W. F. WELLS, Ph.C., ex-President of the Pharmaceutical Society of Ireland, who has been on a visit to South Africa, arrived back in this country last week. Both Mr. and Mrs. Wells have benefited by the change and voyage. Mr. Wells refers enthusiastically to many features of life in the Transvaal and other Provinces of South Africa. The chemists' shops in Johannesburg are equal to any to be found in the Old Country, but the high rents and insecurity of tenure are undesirable features which Mr. Wells referred to in a conversation we had with him.

Wills

MR. THOMAS POLLARD PECHEY, chemist and druggist, 54 High Street, Maldon, who died on May 27, left estate of the gross value of 4,901*l.* 11*s.* 4*d.*, with net personalty 2,695*l.* 9*s.* 2*d.*

MR. JOHN BEAUMONT WOOD, chemist and druggist, 23 Bridge Street, Lockwood, Huddersfield, who died on May 4, left estate of the gross value of 3,190*l.* 2*s.* 10*d.*, with net personalty 1,550*l.* 16*s.* 3*d.*

MR. SAMUEL GODFREY HALL, F.I.C., 39 Highbury Hill, London, N., a director of Edward Cook & Co., Ltd., Bow, E., who died on June 9 at Redruth, Cornwall, left estate of the gross value of 1,088*l.* 13*s.* 10*d.*, with net personalty 273*l.* 15*s.* 10*d.*

REXALL AGENTS.—A meeting to consider the offer made to Rexall agents by Boots, Ltd., will be held at an early date. Agents are requested to communicate with Mr. Wilfred Lean, Ph.C., 22 High Street, Burton-on-Trent, or Mr. F. Clarke, 25 High Street, Newport, Mon.

M. MARCAILHOU D'AYMERIC, a military pharmacist stationed at Gabès (Tunisia) has analysed the local palm wine, or "laghmi." This is tapped by the Arabs from the palm-trees of the oasis. They usually drink it fresh, mindful of the prophet's precept that true believers should abstain from fermented beverages. But it easily ferments, and can be kept for months in sealed vessels. This country, the pharmacist reminds us, was known to the ancient Greeks as Lotus Land. Here Ulysses and his fellow-wanderers partook of "fermented drinks"; whether these were actually amphoræ of "laghmi" Homer has unfortunately omitted to record.

Trade Notes

CHEST PROTECTORS.—Inquiries for chest protectors, abdominal belts, suspensory bandages, etc., are invited by A. B. Frost & Co., Surgical Hosiery Works, Beeston, Nottingham.

SUNBURN CREAM, a toilet-liquid which was introduced before the war, is again offered by Corbyn, Stacey & Co., Ltd., wholesale druggists, Brunton's Wharf, 673 Commercial Road East, London, E. 14.

GERALD BROMAGE & Co., 9 and 10 Foster Lane, London, E.C. 2, have been appointed sole selling agents in the United Kingdom for Pierre Dhumez & Co., essential-oil distillers and manufacturers, Vallauris (A.M.), France.

RUBBER GOODS.—Burge, Warren & Ridgley, Ltd., 91 and 92 Great Saffron Hill, London, E.C. 1, give in their advertisement in this issue revised prices for rubber sponges, sponge-bags, crêpe bandages, and air-cushions.

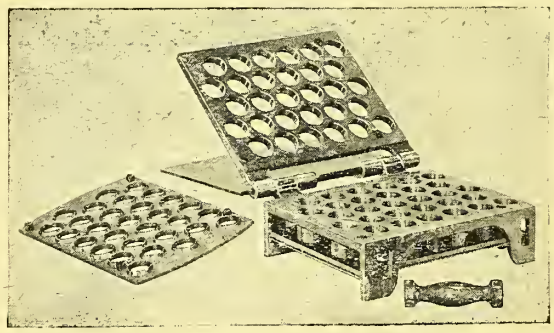
SPARKS, WHITE & Co., LTD., Albion Mills, Tenter Street East, Aldgate, E. 1, have been appointed agents for the United Kingdom for the sale of fine, pharmaceutical, and technical chemicals manufactured by C. A. F. Kahlbaum, of Adlershof, Berlin.

APENTA WATER.—The reduced prices for Apenta Water, announced in our last issue by the Apollinaris Co., Ltd., 4 Stratford Place, Oxford Street, London, W. 1, are 36*s*. per case of twenty-five large bottles, 60*s*. for fifty medium, and 60*s*. for 100 splits. All goods are sent carriage paid in the United Kingdom.

SACHS-GEORGI ANTIGEN.—This test, introduced in 1918 by Sachs and Georgi for the diagnosis of syphilis, depends upon the fact that, in the presence of syphilitic serum, flocculation takes place in a suspension of a cholesterinised extract of heart tissue. Burroughs Wellcome & Co. supply the test in phials of 1 c.c., modified with the object of making it more easily readable, while retaining the same general agreement with the Wassermann reaction.

LIQUID HYDROCYANIC ACID.—Chemicals and Byproducts, Ltd., Rickmansworth Road, Watford, are the agents in England for the liquid anhydrous hydrocyanic acid manufactured by the Cyanide Gas Co., Claremont, Ontario. The liquid is used very largely in Canada for fumigating orchards and buildings, and is replacing the method of generating the gas from sodium cyanide. The liquid is put up in hermetically sealed glass ampoules, and keeps indefinitely. The makers inform us that they have some made in 1916 which is still in its original condition. For transport the ampoules are packed in sealed tins with lime, the object being to neutralise the liquid in the event of premature fracture of the ampoules.

OPTIMUS CACHET MACHINE.—We have had an opportunity of inspecting the working of the Optimus cachet machine, to which we referred last week. The machine, which costs 42*s*., is solidly built in metal and produces nicely finished cachets rapidly without the use of moisture or adhesives.



It is an ideal machine for the dispensing counter. The empty cachets are supplied at 2*s*. 9*d*. per thousand. W. Martindale, manufacturing chemist, 10 New Cavendish Street, London, W. 1, who is the agent for the machine (shown in the illustration), has also a wet-process machine on similar lines.

Index Folio 170

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1921, p. 300.

(*From "The Trade-marks Journal," July 20, 1921.*)

"ZEROX"; for food preservatives (2). By H. J. G. Krause, 106 Hainton Avenue, Grimsby, and H. B. Casebourne, Ivy Cottage, Fulstow, Lincolnshire. 414,182.

"MODAKIN"; for germicides (2). By F. W. Pitt, 147 Elgin Crescent, Notting Hill, W. 11. 414,199.

"QUILLANDQUER BRAND," with monogram on circular device ("Quillandquer Brand" disclaimed); for a rat-destroying preparation (2). By Unique Rat Exterminator, Ltd., Primrose Cottage, Copster Green, Salesbury, near Blackburn. 414,676.

"ELECTROLYN"; for chemicals (2). By C. E. De Wolf, 101 Leadenhall Street, London, E.C., and H. E. Fry, Manor Cottage, Godmanstone, Dorchester. 414,989.

"VITAMINOSE"; for medicinal preparations (3). By W. Dederich, Imperial Buildings, Ludgate Circus, London, E.C. 4. 409,327.

"MAGISAL"; for medicinal chemicals (3). By W. Martindale, 10 New Cavendish Street, London, W. 1. 413,697.

"ARSENOBILLON" and "NOVARSENOBILLON"; for all goods (3). By Les Etablissements Poulenc Frères, 92 Rue Vieille du Temple, Paris. 413,810. (Associated.)

"HORMONIN"; for a hay-fever medicine (3). By Duerdin & Sainsbury Proprietary, Ltd., 349 Flinders Lane, Melbourne, Victoria. 414,375.

"REGAID"; for medicinal chemicals (3) and for surgical instruments, etc. (11). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 415,039/040. (Associated.)

"ZEOCREIN"; for medicinal chemicals (3). By F. J. Jackson, The Cottage, Dovedale Road, Leicester. 415,226.

"VANKORN BRAND A PREPARATION FOR CORNS AND WARTS"; for a corn and wart remedy (3). By Vandol Co., 32 Binden Road, London, W. 12. 415,255.

"GERMOCEA"; for medicinal chemicals (3) and for perfumery, etc. (48). By Taylor's Drug Co., Ltd., 347-359 Burley Hill, Leeds. 415,343/344. (Associated.)

"SILISTREN"; for medicinal chemicals (3). By F. Bayer & Co., Leverkusen, Germany. 415,730.

"BELLEROCKS"; for an *x*-ray protection compound (11). By Barrett & Elers, Ltd., 127 Wallis Road, Hackney Wick, London, E. 9. 414,411.

"DEBONAIR" on floral label device; for perfumery, etc. (48). By the Standard Tablet Co., Ltd., Goldstone Chemical Works, Hove. 413,966. (Associated.)

"ALFOR" with device; for perfumery, etc. (48). By A. J. Walder and C. W. Poulton, 15 Quarry Hill Road, Tonbridge, Kent. 414,060.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

G/38. "Turknit" washing-square.
A/38. Lipogenol.
A/38. Carbolic snow
B/38. "Yek."
S/297. "Trilene" tablets.
L/28*l*. Kingsford's stephanotis perfumery.
L/287. Hammond's Bouquet perfumery.

INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4.

Bravita, A/227
Bromo lecithin, M/257
Cutaneous soap, C/257
"Daisy" fly killer, E/277
Ethyl benzyl aniline, G/277
Hall's wood violet perfume, S/257
Huxley's nerve vigour syrup, L/257
Java face powder, L/257
Kephalgin tablets, E/277
Marmite yeast, S/227
McClintock's Soap, S/197
Mercolised wax, K/237
"Novoid" brand organic iodine tablets, C/267
Pallamine, J/237
Parton's Pills, S/197
Perles de Terbenthine de Clertan, E/227
Phospho nicotyl, W/277
Pinaud's pomade hongroise, HB/237
Prepared storax, F/147
Puffs, M/287
Rankin's ointment, Y/227
"Save-the-Horse" remedies, BS/207
St. Jacob's oil, Y/227
Savar's cubeb cigarettes, Y/227
Schieffelin's pills, H/267
Scrubb's ammonia, AS/147
"Secto" insect powder, E/157
Sim's rubberset shaving-brushes, M/267
Sponges, B/237
Stannoxyl, B/207
Sulphur candles, B/257
Thermos flask, TW/197
Universal razor stroppers, D/197
"Vana" tonic wine, BC/137
Virilla toilet paper, S/267
Vitic rod, H/227
Watkin's mulsified shampoo, L/267

Observations and Reflections

By Xrayser II.

"The Constellation of the Boding Plough"

still dominates the pharmaceutical heavens, and looking at the number of candidates examined in London last month we can hardly regret it. Out of the 1,306 who entered for the whole or part of the subjects 338 won through to the Register of Chemists and Druggists. The other thousand or so are still on the way. With the most hospitable disposition possible, one can hardly welcome this crowd without a qualm, and our misgivings are more on their account than our own. In addition to those registered, 557 got through Part I., and it is probable, therefore, that as large a number will be admitted to the Register at the next examination as at this. Is there room for them? There are about twice as many situations wanted as offered in your issue of this week.

The Use of Botany

to a pharmacist has often been disputed and sometimes denied. Twenty years ago Mr. Wootton in these columns boldly declared that "an acquaintance with botany is in no sense essential to any pharmacist in the conduct of his business." Furthermore, he quoted from Sir James Paget to the effect that botany had been of "no practical utility" to him and of "no money value." I have always been of this opinion myself, but have not always had the courage to say so. I say it now in furtherance of "Jay Mack's" recent remark that our Qualifying examination is quite unfit for its purpose. The little knowledge I have—or, rather, have had—of botany has certainly never been of any use to me in business, and yet it used to be more difficult to pass in this subject than in any, and I grieve to think of the hours wasted on it. Sir James Paget, indeed, thought the mental discipline it entailed worth more than all the trouble it entailed, but surely there are subjects of greater direct utility which are equally valuable in this respect.

It is Germane

to the foregoing remarks to note that at the examination held in London last month a larger number of candidates were referred in botany than in any other subject, proving that the old obstruction still remains. A subject that bars so many otherwise competent men ought to be important as a factor in our education in proportion to its difficulty. Is it? The onus of proof lies with the Society, and though an individual here and there with whom botany is more or less of a hobby might answer in the affirmative, I am convinced that the verdict of the members as a body would be overwhelmingly against it. The importance of botany is even less now than it was when the examinations were first instituted. Even then it was something of a fancy subject; it is still more so now that other subjects of such vastly greater usefulness demand our attention.

The 2,000,000 "Surplus" Women

which rumour says the census will show prompts the inquiry how many of them will find their way into pharmacy. It is obvious that a high proportion of Englishwomen, if they stay at home, can never marry, and it is pretty certain that a much larger proportion than formerly will deliberately choose an independent career. They will then be more independent than men, for they will not give hostages to fortune as we do, and they will thus be able to compete with us in the industrial sphere on easy terms. This, of course, applies to all industries that are open to them, but of these pharmacy has proved one of the most attractive and is probably one of the most suitable. With magnificent egoism we call them "surplus" women, but they are quite as able as we to serve their day and generation, and it is for us to help them as men help one another. It is particularly desirable that mutual good feeling and a spirit of helpfulness should exist between male and female assistants' unions. It has been complained of women that they accept lower salaries than men, but the fault lies with those who force lower salaries upon them. Their influx into business may tend to reduce salaries all round, but it ought to do so only as an excessive supply of any commodity tends to reduce prices. This possibility we have to face; assistants ought not to resent nor employers unduly to exploit it.

Mr. G. R. Sims,

of "Tatcho" fame, is contributing to the "Daily News" a series of articles on the "Good Old Times," the general tendency of which seems to favour the idea that since the time to which his memory extends there has been a considerable improvement in the habits and manners of all classes of society. He has not yet dealt with the question of their material improvement, but this, no doubt, can be shown to be at least equal to the social and moral improvement he notes. How is it with us chemists? Grumbling is the badge of all our tribe, but I seem to hear less of it than I did fifty or sixty years ago, and the average chemist of to-day is certainly a good deal less like the juryman in Bardell *v.* Pickwick than he was when Dickens caricatured him, while nobody, even in farce, would think of likening him to the Apothecary in "Romeo and Juliet," as was occasionally done in those days. Novelists draw the chemist more to the life now, and there has been a gradual improvement not only in verisimilitude but in the character of those they portray. Making every allowance for artistic heightening, this in itself is proof enough of an advance in reputation. Whether we have advanced equally in worldly wealth is a question less easily answered; but I fear not, though undoubtedly we have advanced and are advancing. Our "good old days" had good features which have only very partially survived, but the general level of the trade has, unless I am greatly mistaken, risen noticeably in almost every respect.

None of the Cacti

has ever, except as the food-plant of the cochineal insect, had much of a place in medicine, which is rather curious considering the interest taken in many of the species, and the virtues attributed to them by some travellers. It can hardly be because experiments have not been made with them, for one of them at least, *Cereus grandiflorus*, "that belle so divine who loves through the curtains of midnight to shine," is the source of a well-known diuretic and cardiac tonic, and *Opuntia*, the Indian fig or prickly pear, has properties that commend it as an edible fruit, and has been recommended as an application to wounds and ulcers. Bentley says, too, that several species are useful in febrile disorders. Mr. Paul Fountain, however, if the cactus of the Andes really possesses the qualities with which he credits it in his book, "The River Amazon, from its Source to the Sea," has reason to wonder why it has been so neglected by the medical profession. It is as a tonic in consumption and other wasting diseases that he commends it, whether from actual experience or not he does not say, but presumably he would not speak so highly of its "curative properties" without some evidence of them. Of one species, the *Cereus peruvianus spinosus lobelii*, Gerard writes enthusiastically as one of the most admirable plants in the world, than which "none more moueth the mind to honor and laud the Creator," but he says nothing of its medicinal virtue, and evidently regarded it mainly as a curiosity.

"For This Relief . . . !"—The report submitted by the Westminster Local Committee appointed under the Profiteering Acts states that during its existence nearly five hundred written complaints were received. In fifty-six cases it was ruled that excessive prices had been charged, and in eleven of these prosecution followed. The report concludes: "The Acts, and consequently the Committees, expired on May 19, 1921, but long before that the public had ceased to regard them as having any effect on the cost of living. The Committees were disheartened, and met infrequently or not at all, and it was a relief when they were required no longer to act."

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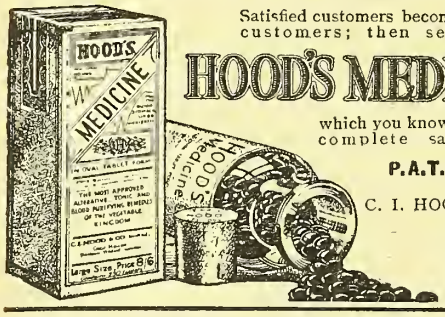

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Index Folio 172

Editorial Articles

An Opticians' Panel Scheme

The National Insurance Beneficent Society is sending out a circular to practising opticians suggesting the formation of a panel of opticians throughout the United Kingdom who will examine, advise, and supply spectacles to members of approved societies under the National Insurance Acts. The valuation of approved societies which has just been completed shows that there will be considerable funds available for additional benefits to contributors. Because of the ill-effect of uncorrected eyesight on a person's general health it is suggested that sight-testing would in the long run save the societies' funds. The following is the suggested scheme and scale of charges :

1. A document termed an "Optical Letter" issued by us will be brought by the patient to the optician. Nothing should be undertaken without this.

2. If immediate attention (such as a repair) not involving a greater charge than 2*s*. 6*d*. is necessary, the work may be forthwith proceeded with, and the account rendered to us, giving the number of the "Letter," the name of the Society signing the "Letter," and the name and address of the patient.

3. If the work involved is more substantial, an examination of the patient's eyes will be made and a short report forwarded to us, with a statement of the cost as per scale. The patient should be invited to attend again on receipt of a card. If a hospital or medical prescription is brought by the patient a test by the optician will not be necessary.

4. Within as brief a period as possible an intimation will be conveyed by us to the optician that the work may proceed, and he should thereupon invite the patient to call again.

5. At the completion of the work the account should be rendered to us giving the particulars mentioned under (2) above. No payment should be accepted from the patient except by our express written instructions, or those of the Society signing the "Letter." Credit should be given on the account for any such payment.

6. Accounts rendered by the 31st of a month will be paid on or about the 7th of the succeeding month.

Scale of Optical Charges

Steel spectacles or pince-nez (clips) in nickelled steel frames (curl, half-curl, or straight sides), complete in case.

Spherical lenses (all powers), including cataract (including sight-testing), 6*s*.; (where no test, *i.e.* dispensing prescription only), 5*s*.

Compound lenses (all powers), 10*s*. and 9*s*.

(N.B.—"Compound" includes plano- and sphero-cylindrical, and sphero-cylindrical cataract lenses.)

Repairs

Up to 2*s*. 6*d*. without special estimate. Above 2*s*. 6*d*., subject to estimate to be furnished by oculist.

Extras

Gold-filled frames and mounts, 3*s*. 6*d*. to 6*s*.
Gold filled rimless, 4*s*. 6*d*. to 8*s*.
Solid gold rims, 21*s*.
Solid gold rimless, 8*s*. 6*d*. 9 or 10 ct.
If to carry specially heavy lenses, then by weight to be stated on estimate.

The scheme has been critically examined, the opinion being that the conditions and terms are not sufficiently advantageous. The British Optical Association has issued a circular to this effect, and also gives the opinion that "to entertain such proposals, even if on much better conditions and terms, will at the present juncture prejudice the claims of the sight-testing optician to legislation, and on that account alone they sincerely trust that qualified opticians will leave this type of business to other classes of opticians who have not the cause of optical legislation at heart." A similar scheme referring to dentistry has been placed before dentists, but has not met with many marks of approval.

Dangerous Drugs Regulations

We are glad to find that our interpretation of the Dangerous Drugs Act Regulations is incorrect so far as it relates to the supply of "dangerous drugs" by chemists to medical men. A question was asked by one of our correspondents (*C. & D.*, July 30, p. 70) as to whether he would require to have a licence to supply the drugs in the course of his wholesale dealings with local doctors. Sir Malcolm Delevingne, referring to our reply, has since favoured us with the following letter, dated August 1:

I am directed by the Secretary of State to say that his attention has been called to a statement contained in an answer to a correspondent (F. W. P., 19/7) on page 70 of last week's issue of The Chemist and Druggist, which appears to imply that after September 1 next a pharmaceutical chemist will require a licence before he can sell any of the drugs to which the Dangerous Drugs Act applies to a duly qualified medical practitioner. This is a mistake. A chemist who keeps open shop for the retailing of poisons in accordance with the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908, is authorised by the Regulations to sell any of the drugs to any person who is licensed or otherwise authorised to be in possession of the drug (see Nos. 4 and 10 of the Regulations made under Section 7 of the Act) and duly qualified medical practitioners are included among the persons authorised by the Regulations (see No. 11 of the Regulations) to be in possession of the drugs. Mr. Shortt will be glad if you would insert this correction in an early issue of your journal.

Several communications have been received from hospital dispensers as to the steps to be taken to comply with the Regulations. It does not appear to be realised that head dispensers at institutions are required to apply to the Home Office, Whitehall, S.W., for exemption from the operation of the Regulations, and that a condition of such exemption will be the observance of a set of "conditions." A summary of the proposed conditions was given in the *C. & D.*, March 12, p. 56, the full text given in an appendix to the report of the Home Office Committee being as follows:

I.—*Scheme suggested for Control of the Drugs in Hospitals having a Dispensary under the Charge of a Qualified Pharmacist.*

1. Supplies of the drugs will be received by the dispensary and will be kept in the charge of a fully qualified pharmacist. A record giving the information required by the Regulations will be kept (separately for each of the drugs) in the Drug Ledger of all supplies received.

2. The practice in regard to the supply of the drugs to the wards will be as follows:

Certain stock preparations are kept in the ward in a locked cupboard of which the sister in charge has the key, and are used by her in accordance with the directions given by the ward doctor. These supplies are replenished from time to time by the dispensary. Medicines are also supplied to the ward for the use of individual patients on prescriptions given by the visiting doctor, the house physician, or the house surgeon.

Supplies of stock preparations will only be replenished by the dispensary on a written requisition from the sister in charge. It is proposed to use for the purpose either a book with counterfoils like a cheque book or a carbon duplicate book, and a record will be kept in the dispensary of all supplies furnished to a ward. If a counterfoil book is used the counterfoil will be initialled by the dispenser.

In the case of medicines for individual patients, the prescription is written by the visiting doctor or by the house doctor on the patient's bed card. It has not been the usual practice for the doctor to initial the prescription on the bed card, but this will be done in future. The bed card is sent to the dispensary for the medicine to be made up. It has not been the practice to keep any record of the fact that the prescription on the bed card has been dispensed, but this will be done in future by stamping the bed card in the dispensary. All bed cards are preserved at the hospital and are available for reference subsequently. In lieu of the record required by the Draft Regulations, the hospitals will keep an index of the cases in which the use of the drugs has been prescribed. The index will show (for each drug separately) date, name of doctor, and name or number of case.

As the dispensaries are in some cases at a considerable distance from the wards, and it has been found in the case of wine and spirits that there is a risk of pilferage, it is proposed that the supplies of the drugs shall be sent to the wards either in a sealed packet addressed to the ward sister or in a locked receptacle, of which only the dispensary and the ward sister will have the keys.

3. The procedure in the case of the out-patients' and other departments will be similar to that in the case of the wards, and the same precautions will be adopted.

4. In the case both of the wards and the out-patients' department a fresh prescription is required each time a preparation is made up for the use of the patients. This may take the form of a direction (initialled by the doctor) to repeat the previous prescription ("Rep. mist.").

5. Prescriptions for particular preparations may be given by reference to the name by which they are known in the hospital.

A scheme on similar lines is recommended:

(*a*) For such Poor-Law institutions as employ a dispenser holding the qualifications recognised by the Ministry of Health and whose appointment as dispenser to the institution has been approved by the Ministry of Health.

(*b*) For such other *bona-fide* similar public institutions approved by the Secretary of State as do not employ a qualified pharmacist, to whom an exemption may properly be granted, who employ as sole or head dispenser—

(1) a person who holds one of the above-mentioned qualifications, and

(2) has had three years' experience as sole or head dispenser at such a public institution.

II.—*Scheme suggested for Control of the Drugs in Hospitals having a Resident Medical Officer but no Qualified Dispenser.*

1. Supplies of the drugs will be received and kept by the medical practitioner in charge. A record giving the information required by the Regulations will be kept (separately for each of the drugs) in the Drug Ledger of all supplies received.

2. Supplies of the drugs will only be issued by the medical practitioner or under his direct personal supervision and under the following conditions:

(*a*) If certain stock preparations are kept in the wards to be used by the sister in charge in accordance with the directions given by the doctor, the supplies of such preparations will only be replenished on a written requisition from the sister in charge. The preparations shall be kept in the ward in a locked cupboard of which the sister has the key.

(*b*) In the case of medicines ordered for individual patients, the prescription will be written by the doctor on the patient's bed card and initialled by him. In lieu of the record required by the Draft Regulations an index may be kept of the cases in which the use of the drugs has been prescribed. The index will show (for each drug separately) date, name of doctor, and name or number of case.

3. The procedure in the case of the out-patients' and other departments will be similar to that in the case of the wards, and the same precautions will be adopted.

4. In the case both of the wards and the out-patients' department a fresh prescription is required each time a preparation is made up for the use of the patients. This may take the form of a direction (initialled by the doctor) to repeat the previous prescription ("Rep. mist.").

5. Prescriptions for particular preparations may be given by reference to the name by which they are known in the hospital.

III.—*Scheme for Hospitals having no Medical Officer in Charge and no Qualified Dispenser.*

1. Orders for supplies of the drugs will be signed by one of the medical practitioners attached to or attending the hospital and will be received and kept by the matron (or the acting matron) in charge of the hospital, and they shall be kept in a locked cupboard of which the matron (or the acting matron) only shall have the key. A record giving the information required by the Regulations will be kept by the matron (or the acting matron), separately for each of the drugs, in the Drug Ledger.

2. Supplies of the drugs will only be issued by the matron (or the acting matron) in accordance with the directions given by a doctor attached to or attending the hospital.

3. In the case of medicines ordered for individual patients, the prescription will be given by the doctor, and made up by a duly qualified pharmacist, in accordance with the requirements of the Regulations.

A note attached to Clause 5 (*a*) in Scheme I. states that the dispensers with qualifications recognised by the Ministry of Health include a holder of the certificate

of the Society of Apothecaries as to his qualifications to act as an assistant in compounding and dispensing medicines; a compounder of medicines duly qualified in accordance with the Regulations for the Army Medical Staff Corps or Royal Army Medical Corps; a person duly registered under the Pharmacy Act (Ireland), 1875, and the Pharmacy Act (Ireland), 1875, Amendment Act, 1890, as qualified to compound medical prescriptions. In connection with hospital dealings in "dangerous drugs," Mr. J. B. Elgar (28 Bedford Square, London, W.C.), hon. secretary of the Pharmacy Unit of the Incorporated Association of Hospital Officers, writes offering to place the experience of the Unit at the disposal of pharmacists of voluntary hospitals who care to communicate with him.

Safeguarding of Industries Bill

It was our intention at this time to deal at length with the various amendments that have been made during the Committee stage of this measure, but we feel no good purpose would be served in endeavouring to explain a matter that may or may not materialise in the near future. A few days ago the leader of the House of Commons, when explaining the proposed programme for the concluding stage of the session, mentioned the fact that the Safeguarding of Industries Bill would, he hoped, be finished, so far as that House was concerned, on or about August 15, and that it would then be handed over to the House of Lords, which would be asked to rush the Bill through in the few remaining days prior to the session ending somewhere about August 21. If, however, the Lords refused to pass the Bill without adequate time for discussion, "he would not press the matter." In short, it looks as if the struggling chemical industry of this country is again to be let down. After continued promises over a long period, during which time they have been led to believe that they were to be given the desired assistance, the necessary legislation is to be quietly shelved. At the very commencement of the session the Government was bombarded with questions anxiously inquiring when it intended to bring forward the Bill, and just as often the reply went forth that "the Government stood by its pledges and fully intended to carry them out at the earliest possible moment." After a good deal of the session had passed, the Bill was at last introduced and was accorded a very mixed reception. It was backed in a half-hearted manner by the Minister responsible. Its passage through the various stages in the House has been marked by a distinct lack of appreciation of its undoubted first-rate national importance and the interests it affected, and from the first day it was evident that the Government was divided on the question. Frankly, we must admit the form in which it was first introduced left much to be desired. The whole Bill was characterised by an atmosphere bewildering in its vagueness and indefinite clauses. After leaving the matter to the latter end of the session, is it to be expected that the House of Lords will act on the suggestion of passing such a controversial measure without having even the smallest opportunity for discussion or time for due consideration legislation which has taken months to pass through the Lower Chamber? It will be seen that on Tuesday the House of Lords made an emphatic protest against the Government's action in dumping in the closing weeks of the session a mass of undigested Bills without allowing adequate time for their consideration, but the adroit speech of the Lord Chancellor secured a victory for the Government, otherwise the Safeguarding of Industries Bill would have been held over until an autumn session. Lord Curzon, in pleading for the Bill, said that some of the industries which it sought to safeguard were in a precarious condition, and to delay the passing of the Bill until November might mean their extinction, which notion was ridiculed by Lord Newton, who is weary of a condition of things in which contentious legislation is carried only by means of physical exhaustion. At the time of writing it seems almost a foregone conclusion that the Bill will not go through this session, which means that it would have to be reintroduced in the Commons next February, which is very unlikely. Throughout the Bill has been the cause of much wire-pulling, and it is evident the Government intentionally delayed matters so that the Lords would have insufficient time adequately to deal with it and maintain their reputation as a bulwark against hasty and ill-considered legislation. Once more it seems very probable that the national interests are to suffer in the cause of political expediency.

Assisting Voluntary Hospitals

The Voluntary Hospitals Commission has addressed letters to the clerks of county councils and county boroughs in England requesting the assistance of the councils in the constitution of Local Voluntary Hospitals Committees, as recommended by Lord Cave's Committee. As a general rule the county, with those county boroughs situated within it, will be taken as a unit; but the larger county boroughs will be constituted units by themselves, and some of the counties containing but few hospitals will be combined into one area. Separate arrangements, though on analogous lines, are being framed for Scotland and Wales. As a rule the Committees will consist of two members nominated by the county councils, and one by each county borough within the county. There will be two medical practitioners nominated by the local medical committees in the area—one to be on the staff of a voluntary hospital and the other a general practitioner; and two hospital representatives not medical practitioners, one for the larger general hospitals and one for the smaller and cottage hospitals in the area. The Commission will nominate not more than five additional members from among those resident in the area, one at least of whom will be a woman, and the Committee itself will select its own chairman from among its members or from outside. The functions of the Committee will include the following:

(*a*) To act as local advisers to the Commission.
(*b*) To collect information as to the needs of their areas.
(*c*) To further co-operation between hospitals.
(*d*) To co-ordinate appeals.
(*e*) To consider the possibility of arranging the transfer of patients where this can advantageously be done.
(*f*) To prepare, where practicable, schemes of co-operative purchase.
(*g*) To advise as to the adoption of a uniform system of hospital accounts throughout their area.
(*h*) To organise systematic contributions both from employers and employees in areas where no such systems at present exist.
(*i*) To undertake the distribution of any contributions made by an approved society in cases where the society is purely local in character.
(*j*) Generally to take every possible step to assist the hospitals in their area to maintain the present voluntary system.

They will also consider generally the existing provision of hospital accommodation in their area. The Commission have adopted the following definition of a voluntary hospital:

An institution (other than an out-patient dispensary) managed by a responsible committee, and wholly or mainly supported from voluntary sources (including income derived from endowments or investments), the object of which is to provide medical or surgical treatment of a curative character; an auxiliary institution (such as a convalescent home) being eligible for assistance only in so far as it increases the facilities of hospitals from which it receives patients.

In the Metropolitan area the King Edward's Fund will act as the local committee and will be responsible for advising the Commission on applications from voluntary hospitals within the nine-mile limit, which is the area now covered by the operation of the King Edward's Fund.

Index Folio 174

The New Europe

I. Hungary

Of our former enemies in the great world conflict, the Hungarians have retained British sympathies in a large measure. There is much in the Hungarian character, in the history of the thousand-year-old kingdom, in its resistance to the Turk, in its admiration and practical adoption of many British institutions—its parliamentary procedure is modelled on that of the Mother of Parliaments—that appeals strongly to the imagination, and compels us to follow with interest the efforts of the whole people at reconstruction.

From a country slightly larger than the British Isles, with an area of 125,430 square miles and a population numbering 23,000,000 souls, Hungary has been reduced to an inland state of about 32,800 square miles, inhabited by a population of 7,482,000. The Hungary of to-day is practically confined to the area of the Great Plain, acknowledged to be one of the most fertile parts, for agricultural purposes, in the world. The country has lost to her neighbours her vast forests and her mines, and her former attempts to build up a chemical industry are now crippled by the lack of native raw materials and of coal. Since the political upheaval of November 1918, she has had to endure the baneful effects of a brief period of Bolshevik administration under the *régime* of Bela Kun, as well as a prolonged military occupation. But now for over a year the country has enjoyed comparative peace, whereby she has been enabled to devote her energies whole-heartedly to the giant task of reconstruction, successfully resisting a recent abortive attempt to rekindle political passions, both within and without the country.

Crude Drugs

In spite of territorial losses, Hungary still remains one of the principal sources of supply of crude drugs. Realising the economic importance to the country of this natural wealth, the Hungarian Government has taken active steps to promote not only the collection but also the cultivation of medicinal plants on an extensive scale, and this task falls within the province of a special department attached to the Ministry of Agriculture. That these efforts have borne good fruit is apparent from the amounts of drugs exported during the past year, of which we are able to give the figures (in kilograms), specially compiled for The Chemist and Druggist :

Alkanet root	28,371	Lime flowers	27,650
Blackberry leaves ...	12,500	Mallow	30,703
Cantharides	1,923	Mullein	1,270
Centaury	4,350	Stramonium	159,475
Chamomiles	194,500	Walnut	9,900
Elder flowers	2,880	Walnut leaves ...	2,867
Hyoscyamus	5,187		

In addition to the above, appreciable quantities of a large number of other medicinal plants were also exported.

In order to illustrate the natural wealth of Hungary and her potentialities as a source of supply of crude drugs, mention may be made of some of the more important plants which grow wild in the country, and the collection of which is being undertaken on a systematic basis. Among these figure :

Aconite, alkanet, angelica, arnica, belladonna, buckbean, buckthorn, calamus, caraway, centaury, chamomiles,

New Map of Hungary.
The small scale map in corner shows the size of the country compared with what it was in 1914.

chicory, colchicum, coltsfoot, convallaria, cynobastos, elder flowers, ergot, gentian, hemlock, hyoscyamus, Iceland moss, juniper, lime, lycopodium, male fern, mallow, marshmallow, red poppy, salep, soapwort, stramonium, tansy, taraxacum, valerian, veratrum, walnut, wild thyme, willow, wormwood.

The cultivation on a large scale is being fostered by the Government of the following medicinal plants, the exportation of which, it is hoped, will prove a material source of wealth to the country :

Belladonna, buckthorn, calamus, caraway, castor-oil plant, coriander, crocus sativus (saffron), digitalis, fennel, hyoscyamus, lavender, liquorice, marshmallow, melilot, mullein, mustard, peppermint, rheum palmatum, Roman chamomile, sage, soapwort, stramonium, thyme.

The exportation of crude drugs is subject to licence, and the trade in these products is placed under the supervision of the department of medicinal and industrial plants of the Ministry of Agriculture, to which all applications have to be addressed.

Chemical Industry

Turning to a consideration of the chemical industry of Hungary, it may be mentioned that of 245 establishments of this category 118 were left within the new frontiers. However, as a consequence of the partition of her territory, Hungary has lost the more important undertakings in this branch of industry. Nevertheless, several of the works which were situated in territories allotted to the neighbouring countries have opened new establishments in Hungary, so that at the present time the number of chemical works totals 182. Owing to the loss of sources of supplies of raw materials and of coal the manufacture of chemicals on a large scale has now ceased in Hungary. On the other hand, those establishments which deal with the further manufacture of half-finished products, resulting in the production of the finished preparation, are making good headway. Hungary has lost all her chemical works devoted to the manufacture of hydrochloric acid, ether, crude acids, explosives, and paper.

In the twenty works devoted to the manufacture of pharmaceutical chemicals, seventy-five trained chemists are at present engaged, and substantial progress has been made, particularly in the manufacture of condensation products of phenol and formaldehyde and of photographic chemicals. In spite of all difficulties, Hungary succeeded in exporting during the latter part of 1920 about five hundred truckloads of chemicals, and great hopes are placed in the future development of chemical exports to the Near East.

A few figures showing the present position of the chemical and allied industries in Hungary, based on official figures supplied for this article, will best illustrate the extent of the industry, although it must not be forgotten that Hungary is essentially an agricultural country, and the development of industrial undertakings is of comparatively recent date. Of the 182 various works, 170 were active during 1920, the output averaging 30 to 40 per cent. of the normal. The various establishments are classed as follows :

	Works	Workmen	Employees	Chemists
Boot-polish factories, etc.	23	808	138	17
Cement industry... ...	4	1,045	37	4
Chemical industry ...	12	2,071	144	32
Gas factories	4	1,424	447	7
Indiarubber works ...	3	1,107	157	5
Mineral-oil refineries ...	5	317	98	14
Perfumery factories ...	18	643	129	19
Pharmaceutical works ...	20	847	151	75
Soap and candle works ...	30	615	106	10
Spirit distilleries	7	956	164	14
Vegetable oil mills ...	9	1,048	70	10

In the period between September 1 and December 31, 1920, a total of 2,900 applications for licences to import and to export chemical products was dealt with. Of these 2,154 were granted, of which 1,180 were licences to import chemicals to the aggregate value of 215,000,000 crowns. Export licences to the number of 974 were granted, representing goods to the value of 320,000,000 crowns. Three hundred and fourteen truckloads of various chemical products were imported, while 836 truckloads were exported during the same period. The principal items figuring in this class of imports were :

Paraffin...	132 truckloads	= 88,000,000	crowns
Lubricating oils ...	41 „	= 18,500,000	„
Pharmaceutical chemicals and medicines ...	4.6 „	= 15,600,000	„
Essential oils	1.5 „	= 13,000,000	„
Heavy chemicals ...	35 „	= 4,000,000	„

The exports consisted of :

Ammonia	3.5	truckloads
Boot polish	5.5	„
Candles	20	„
Cream of tartar and tartaric acid	6	„
Dyestuffs and colours	28	„
Glue	16	„
Indiarubber goods	5	„
Ink and washing blue	10	„
Iron gallate	21	„
Lubricants	5	„
Ordinary soap	10	„
Pharmaceutical chemicals	26.5	„
Potash	3.5	„
Potassium sulphate	4	„
Starch	92.5	„
Sulphurous acid	5	„
Sunflower-seed oil	45.5	„
Toilet preparations and toilet soaps	7	„
Vaseline	2	„

The foregoing figures bear eloquent testimony to the progress achieved under difficult circumstances. At the same time, and this is the object of the present article, attention is drawn to the requirements of Hungary, a market the importance of which should not be overlooked. The value of the Hungarian market, judged from the point of view of the chemical, pharmaceutical, and perfumery industries, is all the greater from the fact that Hungary is in a position to supply us with a large number of essential raw products, principally medicinal drugs; and in fostering trade with her, particularly in purchasing from Hungary those natural products of her soil of which we stand in need, we place her in a position to buy from us those chemical products which she requires, in addition to assisting actively towards the reconstruction, and consequent stabilisation, of one of the stricken countries of Central Europe, thereby bringing the world a great stride forward on the path towards definite settlement, the aim we all wish to attain with the least possible delay, in the common interest of humanity at large.

A "Pharmacy" at Umzimkulu.—The illustration given below is that of the "Union Pharmacy," Umzimkulu, Natal, and is the only one of its "type" in South Africa. The proprietor has a bed on one side and his "shop" on

The Union Pharmacy.

the other side, with a curtain between. He uses a writing-pad and paste for labels, and appears to do very well, his chief customers being Kaffirs. It is evident that the walls require repairing.

Pharmaceutical Society of Great Britain

Council-meeting

A MEETING of the Council was held at 16 Bloomsbury Square, London, W.C., on August 3, Mr. E. T. Neathercoat (President) in the chair. Letters of apology for absence were read from Miss Buchanan and Mr. Wolff, and the other absent members were Messrs. Campkin, Hagon, Keall, and Young. The President intimated that there were no questions.

ELECTIONS AND RESTORATIONS

Three hundred and twenty-one persons were elected members of the Society, and thirty as student-associates; one was restored to the Register, and eighty-nine to the Society. The registrar reported there had been thirty registrations of apprentices as students since the last meeting.

HERBARIUM COMPETITION

The report of Mr. E. M. Holmes on the herbarium competition was submitted, and it was agreed to make the following awards: *Bronze Medal*, George Wright, Leeds; *Certificate of Honour*, Sydney William Bastow, Bournemouth. A formal vote of thanks to Mr. Holmes for his services was passed.

NURSES AND JURY SERVICE

The secretary intimated receipt of a letter from the Federation of Medical Societies stating that at a meeting of the Council of the allied professions of the Federation, held on July 19, a resolution was unanimously carried to the effect that it is in the interests of the community that nurses and midwives actually in the practice of their profession be exempted from jury service. The Society's support of the resolution was particularly asked for at an early date, in order that adequate representations might be made to the proper authority.

Mr. ROWSELL formally proposed that the Council should support the resolution.

Mr. MELHUISH voiced the opinion that an opportunity was afforded the Council of including in the representation the exclusion of chemists and druggists from jury service, as well as the other persons referred to in the letter.

Mr. ROWSELL thought that, taking into consideration the wider question raised by Mr. Melhuish, it would be a good plan to refer the whole matter to a committee. He moved accordingly.

It was then agreed, without further discussion, that the letter, together with Mr. Melhuish's suggestion, be referred to the General Purposes Committee for consideration and action.

OTHER CORRESPONDENCE

A letter was read from the National Council for Combating Venereal Disease asking the Council to pass certain resolutions in relation to a proposed amendment of the Merchant Shipping Act, and to forward these to the Government. The letter was referred to the General Purposes Committee.

The executive of the National Association of Women Pharmacists wrote asking the use of the Society's premises for the occasion of their annual meeting on October 31. The application was granted.

EDUCATION COMMITTEE

The report of this Committee stated that it had been resolved to approve of the following institutions: Ipswich Municipal Secondary and Technical Schools (for chemistry and physics); Burslem-Wedgwood Technical School, Darlington Technical College, and Perth Academy (for botany); Gordon Hall School of Pharmacy for Women and Sunderland Technical Institute (for Part II.). A draft of a suggested apprenticeship indenture which had been received from the Derby Pharmaceutical Committee was considered. The Committee decided that they could not express any opinion on it. They directed the secretary to write thanking the Derby Pharmaceutical Committee for the interest they are showing in the training of apprentices, and at the same time to state that the Council has under consideration the whole question of what should constitute an efficient practical training, and that pending the result of that consideration the Council is unable to give definite approval to any particular scheme.

Mr. WHITE, in moving the adoption of the report, stated that a sub-committee had made arrangements for a series of evening meetings for next winter. The first of these was fixed for November 9; Dr. W. E. Dixon, F.R.S., would contribute a paper on "Drug Habits." The probable sequence of the meetings following that one would be the first Wednesday in December, January, February, March, and April.

The report was adopted.

FINANCE COMMITTEE

The financial statement is summarised as follows:

Receipts since last meeting, including a balance of 4,181*l.* 4*s.* 9*d.*, amounted to 15,844*l.* 18*s.* 5*d.*, comprising the following items: "Journal" and publications, 14*l.* 0*s.* 6*d.*; restoration- and registration-fees, 82*l.* 19*s.*; penalties and costs, 71*l.* 13*s.* 4*d.*; subscriptions, 176*l.* 2*s.* 9*d.*; examination-fees, 10,709*l.* 3*s.*; bank interest on deposit, 74*l.* 15*s.* 10*d.*; rent, 45*l.* 5*s.*; ground-rent, 96*l.* 5*s.*; sale of Registers, etc., 48*l.* 9*s.* 3*d.*; School of Pharmacy, students' breakages, 345*l.* After restoring deposit in bank and deducting payments ordered at last meeting, there was an adverse balance of 1*l.* 15*s.* 2*d.* The other balances were: Benevolent Fund (current account), 1,284*l.* 4*s.* 7*d.*; Benevolent Fund (donation account), 76*l.* 0*s.* 9*d.*; War Auxiliary Benevolent Fund, 579*l.* 1*s.* 8*d.*; Orphan Fund, 299*l.* 6*s.* 11*d.* The report recommended that accounts amounting to 7,099*l.* 3*s.* 8*d.* be paid, and that the action of the secretary in making payments on account, amounting to 790*l.* 19*s.* 3*d.*, be approved. It was recommended that 1,000*l.* of the amount standing to the credit of the Benevolent Fund current account be placed on deposit, and that the proposal of the Establishment Committee in regard to internal repairs be approved.

The TREASURER, referring to the recommendation regarding internal repairs, stated that the Finance Committee had come to the conclusion that the examination-hall and dispensary required the Council's urgent attention so far as painting and other repairs were concerned.

BENEVOLENT FUND

The report of this Committee recommended payment of grants varying from 5*l.* to 30*l.* to seven applicants for assistance.

The VICE-PRESIDENT (in the absence of Miss Buchanan) announced the following special contributions to the Benevolent Fund:

Anonymous, 1*l.* 1*s.*; Devon Pharmacists' Association (box), 3*l.* 17*s.* 8*d.*; Lady Glyn-Jones, 5*l.*; Miss K. N. Horniblow (weighing-machine), 2*l.* 13*s.*; Ladies' Sewing Guild (including special effort of Mrs. Curtis, 21*l.*), 26*l.* 0*s.* 3*d.*; Liverpool Ladies' Committee (per Mrs. A. J. Ferriday), 32*l.* 18*s.* 8*d.*; Lysol, Ltd. (first contribution), 52*l.* 10*s.*; Lysol, Ltd. (second contribution), 8*l.* 19*s.* 10*d.*; F. March, Torquay (weighing-machine), 1*l.* 5*s.*; W. T. Owbridge, Ltd., 5*l.* 5*s.*; Portsmouth Pharmaceutical Association (per W. L. Egerton), 3*l.* 3*s.*; Miss N. P. Storey, 18*s.* 10*d.*; J. Young, Rymer & Co., Ltd. (weighing-machine), 15*s.*; proceeds from Benevolent Fund stall (per Miss Buchanan), 190*l.*; ditto (per Mrs. Freke), 70*l.* 9*s.*

The names of more than eighty members or firms subscribing to the special effort made were also announced. The list included the following, in addition to those mentioned in the *C. & D.*, July 2, p. 39: Ashton & Parsons, Ltd.; Wright, Layman & Umney, Ltd.; Stephen Smith & Co., Ltd.; P. H. Galloway, Ltd.; C. E. Fulford, Ltd.; Henry C. Quelch & Co.; Kolynos, Inc.; Virol, Ltd.; Duncan, Flockhart & Co.; Genatosan, Ltd.; Sangers; The British Drug Houses, Ltd.; Edwards Bros.; Fassett & Johnson, Ltd.; J. Grossmith & Son, Ltd.; Chesebrough Manufacturing Co.; H. & T. Kirby & Co., Ltd.; Gibbs' Fertilisers, Ltd.; Allen & Hanburys, Ltd.; Parke, Davis & Co.; Eucryl, Ltd.; Lysol, Ltd. (These subscriptions were collected by Mrs. Freke and Mrs. Skinner.)

The report was adopted.

War Auxiliary Benevolent Fund

The report of this Committee showed that five applications for grants had been considered. In four of these cases grants varying from 5*l.* to 44*l.* 2*s.* were made. Additional applications for railway fares, amounting approximately to 247*l.*, were submitted and approved for payment. As far as it was possible to estimate, this would bring the total grant required to 750*l.* The chairman requested the secretary to prepare, in time for the October meeting of the Council, a statement of the moneys received and expended and the types of cases assisted since the Fund was inaugurated.

The report was adopted without discussion.

Establishment Committee

The report of this Committee stated that the following list of awards at the Prize Examination (Elementary Class), 1920-21, was received from the Dean of the School: *Botany.*—Bronze medal, certificates: Grace Pasteur Barber, Wilfrid Miles George, Henry Goode Elborne. *Chemistry.*—Bronze medal, certificates: Edward Rowland Sharp, Harold John Augustine Wadsley, Frederick William Adams. *Practical Chemistry.*—Bronze medal, certificates: Herbert Nickels Bream, William George Smith, Harold Caden, Henry Goode Elborne (the last two equal). *Materia Medica.*—Bronze medal, certificates: Frederick William Adams, Harold John Augustine Wadsley, Edward Rowland Sharp, Kate Knight (the last two equal). *Pharmacy.*—Martindale Memorial silver medal, certificates: Saxon Herbert Hunt, Edward Rowland Sharp, Henry Goode Elborne, Edward Roberts Lawton (the last two equal). *Hewlett Memorial Exhibition.*—Edward Rowland Sharp.

The Committee opened the contracts for internal repairs in connection with the Society's premises in the presence of the Society's surveyor, who attended by invitation. These ranged from 1,080*l.* to 846*l.* It was recommended that the tender of H. & E. Lea, Ltd. (846*l.*), be accepted, and that the work be carried out forthwith.

Mr. E. White, in moving the adoption of the report, explained that the internal repairs for which estimates were invited were absolutely necessary. It appeared to him that the treasurer had applied the brake to expenditure to such an extent that they were not going on fast enough with what was actually required.

The Treasurer described the examination-hall as really the only showroom in the whole building, and stated that it was a matter of extreme urgency that it should be re-decorated. The dispensary was even in a worse condition than the examination-hall. On behalf of the Finance Committee, he took upon himself the responsibility of suggesting that the Council should give the Establishment Committee the necessary authority to invite tenders for, and proceed with, the work in these two portions of the Society's building which it was essential should be attended to at once; there was a possibility of their being unable to afford to have those specified repairs done next year, in view of the anticipated decline in income, and as they had now the money he thought it would be well to effect them. He suggested that the matter be referred to the President and chairman of the Establishment Committee, with power to act.

Mr. White mentioned that the Establishment Committee were on the point of spending an amount approaching 1,000*l.* on repairs additional to those previously determined upon; but, if the Council felt they should spend more, and the Finance Committee urged them to do so, they would willingly continue in the direction of renovating the portions of the premises mentioned by the treasurer.

Mr. Lloyd expressed the opinion that it would be a waste of money to re-decorate the examination-hall unless precautions were taken to prevent the "terrific" amount of smoke which emanated from the flues there.

The Treasurer pointed out that the risk of the re-decoration of the examination-hall being spoiled did not arise from faulty flues, but from the dusty air coming from the radiator.

Mr. Melhuish said that what had influenced the Establishment Committee to be economical was the anticipation that they would be able to have other repairs and renovations done at a slightly less cost at some future date.

Mr. Rowsell was of opinion that the Council might very well postpone the suggestion made by the treasurer for some little time, in order to enable the Establishment Committee to bring up a report on the whole scheme of renovation and re-decoration in the new year.

The President reminded the Council that the workmen were at present in the building, and suggested that the additional work mentioned by the treasurer might as well be done during the vacation. When they found the chairman of the Finance Committee in a generous mood, it might be judicious to make peace with him while he was in that way of thinking.

Mr. Guthrie said that the re-decoration of the examination-hall and the dispensary did not come as a suggestion from the Finance Committee, but merely from the treasurer. He was not aware that the Finance Committee empowered their chairman to interfere in matters which were strictly within the province of the Establishment Committee. He thought the Council should come to its own decision on the matter, untrammelled by any opinion that the Finance Committee was supposed to have expressed. Because they happened at the moment to have some money in hand, they need not throw it away at once.

Mr. Hines suggested that the Council approach the contractors, who are at present doing work on the premises, with the request that they should give an estimate of the probable cost of the additional repairs and re-decoration which really required doing.

The President pointed out that the treasurer had proposed that the matter be left to the President and the chairman of the Establishment Committee.

Mr. Hines seconded the proposition.

The President said he was glad to find that some of the Finance Committee supported their chairman. (Laughter.)

The Vice-President expressed his desire to support the treasurer's proposal. The examination-hall, he said, should be re-decorated, and in the end it would be found more economical to do the work now than to delay it for an indefinite period. He asked the secretary whether the hall would continue to be regarded during the coming session as a common-room for the students. If so, they might postpone the re-decoration; but if not, he thought the Council ought to get on with the work.

The Secretary said the Establishment Committee had given no instructions about the examination-hall being used by the students as a common-room. He supposed that, in the absence of these, the Dean would carry on and allow the hall to be so used. That gentleman did not think that at the moment there was any other room in the building that could be used for the purpose mentioned.

Mr Keith moved for delay, in order that the Establishment Committee might consider the whole matter of repairs. He reminded the Council that they had previously decided only to effect the repairs that were absolutely necessary. For the reason given by Mr. Melhuish, that in a year's time they would be able to have the work done very much more cheaply, he thought the re-decorations suggested by the treasurer might very well be delayed till then.

Mr. Rowsell said he would like to second Mr. Keith's proposition; but the President stated that, as this amounted to a mere negative to the proposition, he could not accept it.

Mr. Rowsell then proposed that further consideration of the additional repairs and re-decorations suggested by the treasurer be deferred, and that it be remitted to the Establishment Committee to bring up a report on the whole matter at a later date.

Mr. Guthrie seconded.

Mr. Parry agreed that further repairs and re-decoration of the examination-hall were necessary, but he submitted that the whole question of repairs and renovation ought to be gone into more thoroughly than it had been.

It seemed as if the Establishment Committee did not know what to do with the premises at 72 Great Russell Street. At present the Society was very much in need of a home for country pharmacists visiting London. That accommodation ought to be associated with the Society's premises, and should be fitted up in the form of a club where chemists could meet. At present the library was the only place available for such a purpose, but it was uncomfortable—intentionally made uncomfortable for the purpose of its being prevented from being used as a lounge.

The TREASURER explained, with reference to the observations made by Mr. Guthrie, that, so far from his attempting to dictate to the Establishment Committee, the suggestion he offered was simply the outcome of a conversation he had had the previous day with members of that body and also of the Finance Committee. They had done nothing, during the war, in the way of painting and decorating. At one time the Society spent as much as 500*l.* a year on work of the kind; but latterly they had not spent more than 100*l.* a year. Obviously there was leeway to be made up.

On a show of hands, six voted for Mr. Rowsell's amendment to refer the matter back to the Establishment Committee for further consideration and report, and seven against. On a subsequent vote, the proposition of the treasurer was carried without dissent.

The recommendation by the Finance Committee that the recommendation of the Establishment Committee in regard to internal repairs be approved, and that the Council authorise the work to be carried out at once, was then formally agreed to.

DANGEROUS DRUGS ACT REGULATIONS

The Council then sat in private, and after a short deliberation the following statement was handed to the Press:

The President reported that the opinion of Mr. Alexander Macmorran, K.C., had been received, and that there had been a subsequent consultation with him. The opinion was read and the matter discussed at length. It was ultimately resolved: "That in view of the report of the Home Office Committee to the effect that the question as to whether the Regulations in so far as they prohibited retailing were or were not *ultra vires* 'can only be settled by a competent judicial authority,' it is of the utmost importance that a judicial decision should be obtained at the earliest moment, and with that object that the Home Office be approached with a view to securing their consent to the submission to the Courts of a special case upon the lines indicated in Mr. Macmorran's opinion." It was further resolved: "That, in the event of the Home Office concurring, the President be empowered to take all the necessary steps."

This was all the public business.

Examination Results

THE following are the results of the Society's examinations held in Edinburgh in July:

Qualifying Examination Statistics

—	No.	PART I.		PART II.	
		Absent	Passed	Absent	Passed
Entered for whole Examination ...	434	8	271	5	156
Entered for Part II. and referred subject in Part I. ...	14	0	10	1	4
Entered for Part I. only	27	1	13	—	—
Referred subject in Part I. only ...	—	—	—	—	—
Entered for Part II. only	27	—	—	2	10
Referred subject in Part II.	35	—	—	—	26
	537	9	294	8	196

Referred in one subject: Botany, 51; Chemistry, 41; Materia Medica, 6; Pharmacy, 87. Total, 185.

Major Examination

Eight candidates were examined; the following passed:

Blackie, J. J., Edinburgh
Dall, John, Edinburgh
Garnett, Mary, Sunderl'd
Lauder, James, Glasgow
Parken, E. R., Edinburgh
Turnbull, James, Leith

Qualifying Examination

PART I.

The following have satisfied the examiners:

Anderson, G. F., Aberdeen
Atkins, H. W. O., London
Barclay, Joseph, Glasgow
Bell, Elizabeth R., Edinburgh
Bird, G. E., Leeds
Bird, J. B., Glasgow
Booth, G. E., Ripponden
Booth, W. H., Rochdale
Bousfield, C., Heckmondwike
Bowie, A., Edinburgh
Brown, Harold, Preston
Bryan, Gladys, Manchester
Cameron, Duncan, Glasgow
Campbell, A. D., Dundee
Carr, Charles, London
Chaloner, F., Preston
Charleston, A. T., Wrexham
Clayton, H. P., Huddersfield
Clement, F. J., Glasgow
Cole, M. J. H., Newcastle
Congalton, A., Edinburgh
Cooper, M. H., Edinburgh
Coulson, Sidney, Leeds
Coutts, J. J., Aberdeen
Coward, V. J. H., Glasgow
Crichton, R. H., Edinburgh
Crosbie, R. J. H., Glasgow
Crowther, A., Manchester
Cunningham, W., Cupar
Cuthbert, G. D., Dundee
Dale, Alfred, Stockport
Dallas, J. S., Dundee
Davenport, S., Manchester
Davison, T., Leamington-on-Tyne
Dempster, G., Edinburgh
Dunlop, P. S., Inverness
Dunne, R. J., Bolton
Evans, A. E., Crewe
Ferguson, J. H., Dundee
Finlayson, Angus, Dundee
Forbes, J. F., Dundee
Forsyth, C. McF., Aberdeen
Fraser, J. W., Glencarse
Fyfe, George, Alva
Garbutt, Joseph, Durham
Gibson, H., Edinburgh
Gordon, Amelia, Edinburgh
Grant, R. F., Dundee
Hall, H. N., Colne
Hanson, R. H., Glasgow
Harris, J. C., Preston
Harrison, Herbert, Shipley
Heales, P. W., Hartlepool
Henderson, W. K., Dundee
Herbert, J. C., Edinburgh
Hodgson, W. E., Edinburgh
Howstan, H. A., Springwell
Hughson, H., Edinburgh
Hurst, J. W., Leeds
Jagger, J. A., Barnsley
Jefferson, N., Scarborough
Jones, G. E., Bridgend
Keene, J. W. C., Leeds
Key, W. J. M., Kirkcaldy
Knowles, J., Edinburgh
Knox, E. W., Leeds
Latham, Thomas, Burnley
Levy, V. W., Newcastle-on-Tyne
Logan, Charles, Edinburgh
Lothian, Agnes, Portobello
Low, F. C., Manchester
McDougall, Agnes, Colinton
McGeorge, H., Hamilton
MacGregor, John, Dundee
McGregor, R. M., Edinburgh
MacKenzie, H. M., Aberdeen
Mackie, W. N., Kirkintilloch
McLafferty, Catherine, Clydebank
Mair, W. J., Dundee
Mann, Isabella F., Gullane
Marshall, A., Selkirk
Mellon, H., Boldon Colliery
Midgley, Willie, Leeds
Mitchell, A. M., Kirkcaldy
Mulvein, John, Glasgow
Mulville, E. A., Liverpool
Nicoll, D. A., St. Andrews
Pace, William, Dipton
Paterson, P. C., Glasgow
Pepper, A. B., Glasgow
Pickles, F. H., Bradford
Pickles, G. H., Bradford
Prentice, W. P., Edinburgh
Reid, D. G., Dundee
Reid, George, Dundee
Robertson, A., Edinburgh
Robson, John, Glasgow
Rogers, T. A., Glasgow
Ronder, Deborah, Edinburgh
Rooke, F. T., Glasgow
Rothnie, J. A., Dundee
Russell, D. H., Wishaw
Shaw, J., Middlesbrough
Sheppard, R. C., Bradford
Sim, W. D., Dundee
Slaven, James, Glasgow
Small, Nellie G., Edinburgh
Smith, A., Edinburgh
Smith, W. S., Edinburgh
Stephenson, J. G., Knaresboro'
Stewart, I. M., Edinburgh
Stewart, William, Glasgow
Stewart, W. J., Stockton-on-Tees
Strachan, A. W., Edinburgh
Tetley, A. B., Huddersfield
Thomson, John, Ayr

Index Folio 179

Tomlinson, E., Bradford
Tuley, T. E., Leeds
Turner, E. M., Edinburgh
Veitch, David, Edinburgh
Walker, Nora M., Hollingworth
Walker, S. R., Edinburgh
Wallace, James D., Dundee
Walley, W., Manchester
Wardman, Bertram, Leeds
Westwater, T. D., Glasgow
Whittle, Dorothy M., Morpeth
Will, George, Dundee
Williams, F. H., Manchester
Wilson, G. G., Aberdeen
Wilson, Marie J., Newcastle-on-Tyne
Wood, J. K., Glasgow
Wyllie, J. R., Gateshead
Young, A., Dundee

PART II.

The following, having satisfied the examiners in Part II., have been registered as chemists and druggists:

Bootland, S., Felling-on-Tyne
Campbell, Lily A., Buckhaven
Clarkson, Henry, Leeds
Coutts, R. S., Bathgate
Crosfield, Hilda, Whaley Bridge
Dinsdale, William, Blyth
Dudgeon, J. L., Leith
Dunn, G. W., Hallside
Freeman, F. C. L., Church Gresley
Gordon, A. M., Glasgow
Hendry, M. McI., Falkirk
Hodge, Elizabeth M., Stirling
Hollingworth, Olive M. E., Wath-on-Dearne
Hopper, F. E., Newcastle
Hudson, P. B., Gateshead
Jones, T. G., Carlisle
Kent, E. T., Sunderland
McGuckian, Isobel A., Glasgow
MacIver, Mary D., Invergordon
McLaughlin, J., Glasgow
Main, Helen H., Mauchline
Matthew, H., Dunfermline
Mitcham, Marie R., Manchester
Murray, R. M., Stornoway
Parkin, H. S., Elsecar
Purdie, Isabella A., Edinburgh
Robertson, A., Dundee
Robertson, N. A., Montrose
Safe, G., North Shields
Simpson, J. C., Windermere
Simpson, R. B., Motherwell
Smith, John, Gateshead
Thomson, Margaret F., Edinburgh
Tulloch, J. A., Ayr
Waton, Philip, Gateshead
Whitelaw, R. S., Cupar

PARTS I. AND II.

The following, having satisfied the examiners in Parts I. and II., have been registered as chemists and druggists:

Anderson, Edith D., Cupar
Armitage, S., Dewsbury
Barclay, G., Wartle
Barnes, N., Carlisle
Baron, J. W., Bolton
Barry, R. A., Berwick
Bates, J. A., Southport
Bird, H. A., Alnwick
Black, Christina J., Dunfermline
Blaik, W. M., Portobello
Bowes, J. G., Carlisle
Bowie, G., Broughty Ferry
Brown, C. I., Alnwick
Brown, Margaret A., Aberdeen
Brumpton, J. C., Rotherham
Buckley, Horace, Preston
Burness, Gilbert, Montrose
Butler, J. A., Glasgow
Calvert, A., Cleckheaton
Cameron, J. S., Annan
Cameron, J. J. O., Inverness
Cardno, A. S., Aberdeen
Chisholm, W., Peterhead
Chisholm, W. A., Kingsbarns
Cothill, D. C., Glasgow
Cox, W. M., Newcastle-on-Tyne
Crofts, G. L., Dundee
Crooks, J. D., Kilmarnock
Cross, D. W., Elgin
Cunningham, W. J., Kilmarnock
Date, Alan, Leicester
Davidson, J., Coatbridge
Davidson, Margaret A. H., Fraserburgh
Davies, Archie, Wrexham
Davis, F. R., South Shields
Drake, Frank, Bradford
Demaine, Robert, Bolton
Donald, N. R., Chester
Donaldson, J., Galashiels
Douglas, M. J., Lerwick
Drummond, J. W., Methil
Dunlop, J. F., Bathgate
Duthie, J., Rosehearty
Dutton, N. N., Chester
Exelby, N. A., Harrogate
Faller, Leonard, Leeds
Farquhar, J. S., Strichen
Fleming, A., Edinburgh
Foote, W., Cowdenbeath
Fyffe, J. S., Dundee
Gair, Catherine K., Tarbert
Galloway, J. L., Falkirk
Gill, I. N., Ludgate
Gilmour, A., New Malden
Glennie, D. A., Portobello
Gould, W. W. S., Arbroath
Graham, R. S., Elgin
Grave, George, Keswick
Graves, Dorothy, Barrow-in-Furness
Green, Rowland, Bradford
Hamilton, Douglas, Islay
Hay, J. A. D., Aberdeen
Hinkley, E., Blackburn
Hourston, W. A. M., Orkney
Hunter, J. M., Edinburgh
Inglis, James, Kelso
Jamieson, G. G., Rhynie
Jamieson, W. W., Shetland
Johns, W. N., Blackpool
Kelman, W. G. D., Glasgow
Kinnaird, D. M., Lossiemouth
Kirkwood, A., Kilmarnock
Knott, E. A. M., Girvan
Lamb, M. M., Kirby Stephen
Laverock, J. A., Stirling
Lealman, J. W., Harrogate
Liddell, James, Milngavie
Lindsay, R., Brighouse
McConnach, J., Aberdeen
McDonald, W. D., Glasgow
McDougall, John, Glasgow
McEwan, John, Lanark
McGhee, D., Kilmarnock
McGlashan, R. D., Leith
Macgregor, Isabella M., Inverness
MacGregor, J. C., Keith
MacGregor, R., Gateshead
McInnes, R. S., Dundee
McIntosh, James, Dunkeld
McKenzie, Margaret McI., Aberdeen
MacLean, Archibald, Oban
Macnaughton, N. D., Aberfeldy
Macpherson, J. H., Comrie
McPherson, R., Glasgow
Main, David, Buckie
Mair, A. A., Keith
Manson, W. A., Banchory
Marshall, T. O., Monkseaton
Martin, J. H., Darlington
Melville, J. T., Glasgow
Metcalfe, C. F., Masham
Middleton, A., Aberdeen
Milburn, C. B. P., Aberdour
Miller, J., Cowdenbeath
Milne, A., Aberdeen
Milton, A. T., Buckie
Mitchell, J. W., Rothes
Munro, A., Alness
Muscat, H., Sunderland
Noble, J. A., Elgin
Nolan, J., Manchester
Nuttall, J. H., Rochdale
Park, J. C., Aberdeen
Pearson, M. S., S. Shields
Petrie, William, Arbroath
Polson, F. R., Aberdeen
Porter, H. D., Huntly
Robertshaw, J. L., Hebden Bridge
Ross, D. S., Fraserburgh
Rowan, James, Ayr
Russell, A., Edinburgh
Russell, John, Kirkcaldy
Rutherford, R., Carlisle
Sarsfield, Elsie, Whitley Bay
Schorn, E. J., Edinburgh
Scott, M. D., Edinburgh
Scott, W. J. M., Garmouth
Sharp, John, Falkirk
Shiach, William, Aberdeen
Shivas, O. J., Aberdeen
Short, A., Stockton-on-Tees
Sime, Catherine B., Crail
Simpson, John, Aberdeen
Sinclair, A., Kelty
Singer, J. D., Turriff
Skinner, John, Ellon
Slade, W. H., Windermere
Smart, Nelson, Brechin
Stewart, G. M. C., Buckie
Stirling, James, Dunoon
Stoddart, T. E., Stockton-on-Tees
Stuttard, C. T., Manchester
Sutherland, J. F., Invergordon
Sutherland, W. H. B., Kirkwall
Tait, David, Kirkwall
Templeton, T. M., Grennock
Thirlwell, H. L., Wellington
Thomson, Peter, Grennock
Thorpe, F. C., Halifax
Todd, J. G. J., Glasgow
Tomlinson, R., Southport
Ward, V. A., Paisley
Watt, G. G., Fraserburgh
Webb, E. F., Manchester
West, John Telfer, Glasgow
White, T. W., Moffat
Williamson, L., Congleton
Williamson, R. S., Darlington
Wilson, T. H., Middlesbrough
Wood, J. W., Manchester

THROUGH GERMAN SPECTACLES.—The Calcutta correspondent of the "Pharmazeutische Zeitung," Berlin, writes that, in view "of the well-known disposition of Indian business men to purchase pharmaceutical supplies in Germany," it is necessary to warn exporters that the Indian harbours are suffering from dishonoured bills. Although principally American and English manufacturers are the sufferers, and German bills are less exposed to this treatment than all others, *on account of Indian sympathies for Germany*, extreme caution should be observed, since failures of big firms take place daily. He recommends exporters to demand payment against documents in Hamburg, or, failing this, prepayment of one-third or one-fourth of the amount of the invoice, and collection of the remainder against documents in Calcutta. [The italics are ours.—EDITOR.]

New Italian Tariff

A SUPPLEMENT to the "Board of Trade Journal" of July 21 gives a translation of the new general Customs Tariff for Italy. A statement is included of the "conventional" rates still operative under existing commercial treaties and the goods to which they apply, and information as to tare regulations, etc. The new Tariff took effect on July 1, and all goods for which import entries had not been submitted to the Customs before that date became subject to the rates of duty set out in the Tariff, with the exception of those goods the duties on which are fixed by existing commercial arrangements between Italy on the one hand, and Brazil, France, Japan, Greece and Serbia on the other. The old "conventional" rates resulting from the Italian Treaties with Austria-Hungary, Germany, Roumania, Spain and Switzerland are no longer operative owing to the termination of those Treaties. The Supplement in question gives a statement of the articles covered by such "conventional" duties as still remain in force, and the duty applicable in each case. In this statement the articles are necessarily specified in accordance with the old Tariff classification. These "conventional" duties will remain in force until the termination of the respective Treaties or Conventions by arrangement between the Governments concerned; and so long as they do remain in force they will continue to be applicable (so far as they are *lower* than the corresponding rates of the new General Tariff) to imports into Italy of goods of the specified kinds, of United Kingdom origin, in virtue of the most-favoured-nation Tariff clause in the Anglo-Italian Treaty. Provision has been made for an increase of the basic rates by a series of "coefficients," the general object of which is to bring those rates up to the level rendered necessary by existing divergencies between costs of production in Italy and other industrial countries. No attempt has been made to institute a detailed comparison between the new and old Tariffs, but the classification has been greatly elaborated, the 472 main headings of the old Tariff having been expanded to 953. To a very large extent the new rates represent increases of the former duties, particularly in manufactured goods. Below we give particulars of some of the rates of interest to the drug-trade:

CATEGORY XL

Medicinal Substances and Pharmaceutical Products

Tariff No.	Articles	Import Duty (Gold Lire)	Co-efficient of increase
770	Liquorice root:	Lire c.	
a	Not pulverised	Free	—
b	Pulverised ... ... 100 kilos.	10 00	—
771	Cassia:		
a	Raw ... ... 100 kilos.	7 00	—
b	In pulp, with or without sugar 100 kilos.	60 00	—
	If the pulp contains sugar, there is levied, in addition to the Customs duty, the manufacturing surtax on sugar of the first class in the proportion of 40 kilos. for each 100 kilos. of the pulp.		
772	Tamarinds:		
a	Raw ... ... 100 kilos.	7 00	—
	On raw tamarinds containing more than 30 per cent. of sugar (calculated as invert sugar) there is levied, in addition to the Customs duty, the duty on sugar of the second class and the relative manufacturing surtax on the quantity of sugar exceeding this limit.		
b	In pulp, with or without sugar 100 kilos.	60 00	—
	On tamarinds in pulp, containing sugar, there is levied, in addition to the Customs duty, the manufacturing surtax on sugar of the first class in the proportion of 40 kilos. for each 100 kilos. of pulp.		
773	Manna, raw or in sticks	Free	—
774	Mannite ... ... 100 kilos.	50 00	—
775	Camphor:		
a	Raw	Free	—
b	Refined ... ... 100 kilos.	25 00	—
776	Cinchona bark:		
a	Not pulverised	Free	—
b	Pulverised ... ... 100 kilos.	20 00	—
777	Plants and parts thereof, medicinal, not specially mentioned:		
a	Indigenous:		
	1. Not pulverised ... ... 100 kilos.	3 00	—
	2. Pulverised ... ... 100 kilos.	20 00	—
b	Exotic:		
	1. Not pulverised	Free	—
	2. Pulverised ... ... 100 kilos.	20 00	—
778	Juices:	Lire c.	
a	Aloe ... ... 100 kilos.	10 00	—
b	Orange	Free	—
c	Lime and Lemon:		
	1. Raw	Free	—
	2. Concentrated	Free	—
d	Liquorice ... ... 100 kilos.	20 00	—
779	Salts and mineral waters and of springs for hygienic or curative purposes ... ... 100 kilos.	20 00	0·3
	The importation of such salts containing more than 25 per cent. of sodium chloride is subject to the regulations prescribed by the Minister of Finance regarding the control of the trade in such salts and miscellaneous salines for hygienic and curative purposes.		
	On such salts containing more than 25 per cent. of sodium chloride there is levied in addition to the Customs duty a surtax equal to the internal tax on production.		
780	Synthetic medicinal products, excluding alkaloids kilo.	15 00	0·2
	On such products there is levied, in addition to the Customs duty, a surtax on the quantity of spirit contained or used in their manufacture. The proportion will be determined by the Minister of Finance on the advice of the Board of Customs experts.		
781	Pharmaceutical preparations, not specially mentioned:		
a	Simple ... ... 100 kilos.	100 00	0·5
b	Compound:		
	1. Pills, granules, pastilles, compresses, tablets and capsules ... 100 kilos.	200 00	0·5
	2. Other ... ... 100 kilos.	200 00	0·5
	Such preparations made of alkaloids or synthetic medicinal products combined with other substances in an agglomerated form are classified according to the alkaloid or synthetic medicinal product which forms its base.		
	The weight of the immediate packing or receptacle is not deducted in arriving at the duty on these products.		
	On these products there is levied, in addition to the Customs duty, a surtax on the quantity of spirit contained or used in their manufacture. The proportion of this will be determined by the Minister of Finance on the advice of the Board of Customs experts.		
782	Medicinal specialities:		
a	Secret remedies and specifics 100 kilos.	400 00	0·5
b	Other ... ... 100 kilos.	250 00	0·5
	Medicinal specialities include all substances put up in receptacles or packages, ready for retail sale, and sold under a name or description or advertised on the receptacle or package in such a manner as to indicate that it is a medicinal product or has medicinal properties: or when the name of the inventor or manufacturer printed on the receptacle or container is characteristic of a medicinal preparation.		
	As secret remedies and specifics are considered medicinal specialities presented in receptacles or packages which do not indicate the formula on which they are based or which give a formula containing one or more substances not mentioned in the Italian Official Pharmacopœia.		
	The pills, granules, pastilles, etc., classed as medicinal specialities are, when composed of alkaloids or synthetic medicinal products, combined with other substances in an agglomerated form, classified with the alkaloids or synthetic products which form their base.		
	The duty on these goods is levied without deducting the weight of the immediate receptacles and packings in which they are sold by retail, including the weight of the stoppers, brushes, swabs, advertisements, etc., contained in the receptacle or package.		
	On these products there is collected, in addition to the Customs duty, a surtax on the quantity of spirit contained or used in their manufacture. The proportion will be determined by the Minister of Finance on the advice of the Board of Customs experts.		
	The importation of empty packages, cards, etc., with inscriptions or other indications showing them to be destined to contain or wrap products to be sold as medicinal specialities prepared abroad is prohibited.		

Among organic chemical products we select the following, the figures representing lire per 100 kilos. except where otherwise mentioned:

Acids.—Benzoic, 100; citric, 50; gallic and pyrogallic, 75; oxalic, 20; tannic, 25; tartaric, 10; methyl alcohol, 30; crude glycerin, 8; refined, 10; ether, 90; acetone, 30; chloroform, 90; calcium citrate, 10; citrates not specially mentioned, 50; salicylates and benzoates not specially mentioned, 100 (coefficient of increase 0.2); cream of tartar, 8; metol and other photographic chemicals, 200 (+0.2 coefficient of increase). Quinine and other alkaloids with a base of Peruvian bark, and salts thereof, 10 lire per kilo. (+ 0.5 coefficient of increase). Alkaloids not specially mentioned, and salts thereof, 15 per cent. on the official valuation.

Index Folio 181

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, August 4

OWING to the holidays and the absence of many principals, the produce markets have been thinly attended this week, and little of interest has transpired, the changes in value being comparatively unimportant. Among drugs senega and ergot still command attention, and higher prices have been paid. Balsams are quiet, copaiba, Peru, and Canada balsam having an easier tendency; tolu is steady. Cape and Curaçao aloes are tending lower, owing to lack of export business and ample stocks. Squill is cheaper, and in fact all Italian produce is offering at more favourable prices. Menthol and oil are steady, but without business. Among seeds and spices, canary has further advanced; cumin and mustard are dearer; caraway is steady and coriander firm; spot stock of fennel is exhausted. Ginger is in fair demand, with a slight improvement in sound Cochin, Calicut, and African. Peppers are quiet and Zanzibar cloves are dearer.

Higher	Firmer	Easier	Lower
Canary seed	Mustard seed	Amyl salicylate	Benzoic acid
Clove oil	Orange oil	Arsenic	Benzyl benzoate
Cloves		Balsam, Canada	Bismuth salts
Cumin seed		Benzaldehyde	Calamus oil
Ergot		Bergamot oil	Cream of tartar
Farina (Dutch)		Citronella oil	Formaldehyde
Linseed oil		Copaiba	Hexamine
Senega		Coumarin	Lavender oil
Vanillin		Geranium oil	Potash nitrate
		Peppermint oil	Sal prunella
		Phenacetin	Sandalwood oil (W.I.)
		Potash prussiate (yellow)	Sodium sulphide
		Pot. sulpho-guaiacolate	Squill
		Safrol	Theobromine
		Spearmint oil	Turpentine

Cablegram

NEW YORK, August 2.—Business is fair. Cartagena ipecacuanha is lower at $1.85 per lb. Short buchu has declined to 88c. per lb. and hexamine to 85c. per lb. Menthol is higher at $4.40 per lb.

Crude Drugs, etc.

ALOES.—Curaçao is plentiful on the spot, ordinary quality offering at from 60*s*. to 70*s*. per cwt., but good livery is scarce. Cape are tending cheaper owing to lack of export demand; good firsts can be had at 52*s*. 6*d*.

The exports from the Union of South Africa during April 1921 amounted to 13,516 lb. (150*l*.), against 11,811 lb. (164*l*.) during April 1920. For the four months ended April 30 they were 29,494 lb. (230*l*.), against 182,942 lb. (5,186*l*.) for the corresponding period of 1920.

ANTIMONY.—Crude attracts little interest, and the market is nominally 17*l*. per ton c.i.f. to arrive, and 18*l*. nominally on the spot. Foreign regulus is offering at about 24*l*. c.i.f., and sellers of warehouse lots ask up to 25*l*. English refined is wanted only in small lots, and ranges from 40*l*. to 42*l*. It is not to be expected that foreign, which stands at a big discount compared with English, can give way very much despite the slow demand.

BALSAMS are quiet, with spot quotations a shade easier at from 7*s*. 9*d*. per lb. for *Peru*; for *Copaiba* 1*s*. 11*d*. is about the value, and *Tolu* is steady at 1*s*. 8*d*. *Canada* is easier at 9*s*. 3*d*. per lb.

BUCHU is unchanged, fair to good green round being obtainable at from 5*s*. 6*d*. to 6*s*., and for ovals 5*s*. 3*d*. per lb. has been paid. Longs are held for 7*s*. 6*d*.

The exports from the Union of South Africa during April amounted to 14,629 lb. (2,379*l*.), against 11,199 lb. (4,551*l*.) for April 1920. For the four months ended April 1921 the figures were 37,391 lb. (6,486*l*.), against 47,736 lb. (19,536*l*.) for the corresponding period of 1920.

CADMIUM is dull and merchants ask 6*s*. per lb., the demand being very slow with an ample supply available.

CAMPHOR (REFINED) is quiet, with Japanese refined 2½-lb. slabs offering at 4*s*. 2*d*. and Chinese 7-lb. discs at 4*s*. Japanese for shipment is quoted at 3*s*. 7½*d*. and Chinese at 3*s*. 6*d*. c.i.f.

CASCARA SAGRADA is slow of sale at from 85*s*. to 87*s*. 6*d*. per cwt. on the spot, the latter for two- to three-year-old bark. For September shipment in ton lots the cheaper price of 65*s*. c.i.f. is quoted. New York mail advices quote carloads at 7½c. per lb. f.o.b. shipping point.

ERGOT.—For what little is offered on the spot holders ask 7*s*. per lb., and to come forward 6*s*. c.i.f. is quoted.

JUNIPER BERRIES.—Fair Italian offer at 20*s*. per cwt. c.i.f.

MAGNESIUM is dull. Continental metal is called 5*s*. 3*d*. by dealers, but offers from the Continent continue to be heard of down to below 4*s*. per lb.

MENTHOL is quiet but steady at 20*s*. 6*d*. per lb. for Kobayashi-Suzuki on the spot.

MERCURY.—The demand either for export or the home trade has been very dull lately, but holders maintain their terms, which range from 10*l*. 11*s*. to 11*l*. per bottle. There is a fair amount of Italian to be had, and, of course, there is plenty of Spanish held in stock. The tendency, if anything, is in buyers' favour, although there is no apparent pressure to sell.

OPIUM.—There is practically nothing doing in the London market, the value of 10 per cent. Turkey drug being about 8*s*. per lb.

SMYRNA, July 16.—Since forwarding our last report of May 27 the sales of opium on our market amount to 78 cases, at from 8*s*. 9*d*. to 12*s*. per lb., as to quality. The exchange oscillated from piastres 500 to piastres 550 per pound sterling for cheque, and from $0.68 to $0.78 for one Turkish pound of piastres 100. To-day it is at piastres 547 per pound sterling and $0.70 for one Turkish pound. The arrivals of old crops ceased on July 8, bringing up the total to 1,393 cases, against 1,745 at same date last year. This week new crop opium has come down to the extent of 6 cases, against 28 at same date last year. Our stock of new and old opium is now 1,120 cases.

The British Chamber of Commerce of Turkey and the Balkan States, in its monthly journal for July, states that after some 35 cases had changed hands during the first week of the month at piastres 700 to piastres 725 per oke for druggists' and at piastres 925 to piastres 1,025 per oke for "softs," according to quality, prices rose somewhat, and the demand dwindled down. During the last week some 20 cases softs were bought at piastres 975 and over. The price for druggists' rose to about piastres 800 per oke. There has been a small demand from Germany, but otherwise no inquiries from any of the consuming centres. Stocks to-day at Constantinople amount to approximately 630 cases.

ORRIS.—Fair Florentine sorts offer at 45*s*. and Verona at 35*s*. per cwt. c.i.f.

SENEGA has been in fair spot demand, and holders ask the advanced rate of 3*s*. 6*d*. per lb. Some forward business was recently done at about 2*s*. 11*d*. c.i.f., but from 3*s*. 2*d*. to 3*s*. 3*d*. c.i.f. is now asked.

SHELLAC has been quiet, and closes easier on the spot at from 280*s*. to 290*s*. per cwt. for usual standard quality TN Orange; fine lemon is 420*s*.; fine seconds orange, 380*s*.; RL 1, 345*s*.; AC cakey Garnet, 290*s*.; and IG, 220*s*. The future market is dearer, the sales including August at from 250*s*. to 280*s*. to 275*s*., October 235*s*. to 255*s*. To arrive TN for July-August shipment has sellers at 225*s*. c.i.f.

SQUILL is cheaper, with fair pale offering on the spot at 30*s*., good ordinary at 25*s*., and ordinary at 20*s*. per cwt.

STYRAX.—Guaranteed B.P. liquid can be had at 6*s*. 3*d*. per lb. and liquid water strained at 4*s*. per lb.

TURPENTINE.—The situation has been puzzling, the price having fallen again considerably last week simply on account of the dragging demand. Some limited fresh supplies have come in to this port and also at Hull. The London stock of American spirit has increased to about 3,500 barrels, which is absurdly small, and for this reason

it is suspected that the market will become very sensitive as soon as the trade demand revives. Spot closes lower at 77*s*. per cwt.

VANILLA.—Bourbon beans have been advanced by 9*d*. to 1*s*. per lb. according to length. Considerable quantities have been purchased recently by America. On the spot for first quality beans measuring 5 to 6 in. 8*s*. 11*d*. per lb. is about the current value from importers, and it is not anticipated that this price will be exceeded unless the demand increases.

WAX (BEES).—Genuine pure Italian is offered at 132*s*. per cwt. c.i.f. to come forward.

WAX (JAPANESE).—For the first three brands there are spot sellers at 95*s*. per cwt.

Seeds and Spices

ALMONDS of all descriptions are held for higher prices, but there is nothing in the demand to justify the advance.

ANISE is unchanged at 75*s*. per cwt. for Russian and 78*s*. for Spanish.

CANARY SEED has continued to advance in price owing to short supplies and good demand; 110*s*. per quarter has been paid for ordinary Morocco and 125*s*. for good.

CARAWAY SEED is steady at 27*s*. to 28*s*. per cwt. for ordinary to fair Dutch on the spot.

CLOVES.—Zanzibar continue to advance, chiefly on speculative account, spot business having been done up to 1*s*. 2*d*. per lb., with 1*s*. 2¼*d*. asked. Sellers of August-September shipment quote 1*s*. 2*d*. c.i.f.

CORIANDER SEED is firm at 25*s*. per cwt. for good sound Morocco and 20*s*. for slightly wormy.

CUMIN SEED is dearer, with sales of 1920 crop at 50*s*. per cwt., and 55*s*. is now asked for 1919 crop on the spot.

DILL SEED is unchanged at 24*s*. 6*d*. per cwt. for fair East Indian.

FENNEL SEED.—The stock here appears to be exhausted.

FENUGREEK SEED is quiet but steady at 15*s*. per cwt. on the spot.

GINGER has been in fair demand, and prices, particularly sound Cochin, Calicut, and African, tend towards improvement. New crop washed rough Cochin can be had at about 42*s*. to 45*s*., and old wormy at from 32*s*.; cut Cochin is easier and in small demand.

MUSTARD SEED is dearer at 26*s*. to 30*s*. per cwt. for fair to good English yellow.

PEPPER is quiet, and, if anything, the tendency has been easier. Fair black Singapore is 4⅜*d*. spot; sales to arrive include August-October at 4⅝*d*. c.i.f., sellers quoting 4½*d*. for this position on Wednesday. Lampong is 5*d*., Tellicherry 4¾*d*., and Aleppy 4½*d*., all spot. Fair white Muntok is 9½*d*. to 9¾*d*., with sales of August-October shipment at 9¼*d*. c.i.f. Singapore is 9¼*d*. spot, and August-October shipment 9*d*. c.i.f.

Essential Oils

A FAIR amount of small business is passing, and with the probable exception of clove oil, which is again dearer from distillers, and Sicilian sweet orange, which has a firmer tendency, values are in most cases unchanged. Bergamot is a shade easier, and citronella oil is dull and a little cheaper. Geranium shows a further decline, while both peppermint and spearmint oils have moved in buyers' favour. A further reduction in the price of calamus and West Indian sandalwood is reported. French lavender oil is decidedly unsettled, but holders seem anxious to unload. Aromatic and synthetic chemicals appear to be in better demand. Vanillin has firmed up sharply, but a slight decline is noticeable in amyl salicylate, benzaldehyde, coumarin, safrol, and benzyl benzoate.

ANISE (STAR).—"Red Ship" is unchanged on the spot at 2*s*. 3*d*. per lb., and to come forward 2*s*. 3*d*. c.i.f.

BERGAMOT.—Spot quotations are a shade easier at from 22*s*. to 22*s*. 6*d*. per lb. for 37 to 39 per cent. l.a.; to come forward 22*s*. to 22*s*. 6*d*. c.i.f. is about the value.

CALAMUS is cheaper on the spot at from 16*s*. 6*d*. to 17*s*. per lb., according to quantity.

CARAWAY is dull at from 6*s*. to 6*s*. 6*d*. per lb. for rectified, while for a line this can be shaded. Crude is quoted at about 6*d*. under these figures.

CASSIA is quoted at 4*s*. per lb. for 80 to 85 c.a. on the spot, and to arrive at 3*s*. 8*d*. c.i.f.

CINNAMON.—Ceylon leaf is unchanged at from 4*d*. to 4¼*d*. per oz., as to seller.

CITRONELLA.—Ceylon is slightly easier at 1*s*. 2¾*d*. to 1*s*. 3*d*. per lb. for spot. Java is nominal at 2*s*. 6*d*.

CLOVE.—At the present price of the spice distillers cannot profitably quote less than 9*s*. per lb. for spot, but business at this figure is difficult to get, as second-hands are filling orders under the distillers' price. To come forward from abroad 8*s*. 6*d*. is quoted in one direction.

GERANIUM.—Bourbon on the spot is weaker, and spot quotations are made at from 14*s*. to 16*s*. per lb., according to holder, although in some cases up to 17*s*. is given as the price. Algerian is not in much demand at the easier quotations of from 23*s*. to 25*s*.

LAVENDER.—French oil is cheaper following a reduction in price on the part of one or two distillers. On the spot finest quality, testing 38 to 40 per cent. esters, has been sold at 22*s*. 6*d*. per lb., at which price there are still sellers. French oil, testing 34 per cent., is offered at 16*s*. to arrive, delivered free in England. The forthcoming Lavender Oil Fair at Digne (*C. & D.*, June 16, p. 61) does not appear to be meeting with much enthusiasm here, for, as one importer said during the week, the object of the fair is to maintain the price, whereas importers and dealers want it down to a reasonable level. It is probable that distillation will be considerably curtailed this season, but stocks are likely to be well able to meet the demand.

LEMON is quoted unchanged at from 3*s*. 3*d*. to 3*s*. 6*d*. per lb. for spot, and to come forward 3*s*. 6*d*. c.i.f. represents about the value.

MINT.—Japanese dementholised Kobayashi-Suzuki is steady on the spot at 4*s*. 3*d*. For forward delivery quotations are firmer at from 4*s*. to 4*s*. 1½*d*. c.i.f.

ORANGE.—Sicilian sweet is firmer on the spot and in fair demand at from 13*s*. to 15*s*. per lb.; to come forward is quoted at 13*s*. 6*d*. to 15*s*. 6*d*. c.i.f. West Indian sweet is offered at 14*s*. landing, and bitter at 11*s*.

PALMAROSA in pots is unchanged on the spot at 14*s*. 6*d*. per lb.; higher quotations are coming forward from the source.

PEPPERMINT.—Natural American tin oil is obtainable at from 12*s*. 9*d*. to 13*s*. per lb. for spot, being easier; for the redistilled 14*s*. 9*d*. is quoted. To arrive 12*s*. c.i.f. is quoted for September shipment.

PETITGRAIN.—Paraguayan is dull on the spot at 13*s*. per lb., which could be shaded for a line. To come forward 11*s*. 6*d*. c.i.f. is quoted.

ROSEMARY.—Spanish on the spot is quiet and unchanged at from 2*s*. to 2*s*. 3*d*. per lb., according to quantity.

SANDALWOOD.—West Indian (ol. amyris) is cheaper on the spot at 17*s*. 6*d*. per lb.

SASSAFRAS.—Genuine oil is unchanged at 8*s*. 6*d*. per lb.

SPEARMINT is cheaper on the spot at 26*s*. 9*d*. per lb., and to come forward 25*s*. c.i.f.

SPIKE.—Spanish is in small demand around 4*s*. per lb. spot.

WORMSEED.—Spot holders are quoting about 15*s*. per lb., which is unchanged.

Aromatic and Synthetic Chemicals

AMYL SALICYLATE is easier on the spot at from 4*s*. to 4*s*. 6*d*. per lb., as to seller and quantity. AUBEPINE is quoted at from 12*s*. to 14*s*. per lb., according to quality. BENZALDEHYDE f.f.c. is cheaper on the spot at 3*s*. to 3*s*. 6*d*. per lb. BENZYL ACETATE is offered at 3*s*. 9*d*. per lb. for cwt. lots; up to 4*s*. for less. BENZYL BENZOATE is easier at from 4*s*. to 4*s*. 6*d*. per lb. CINNAMIC ALDEHYDE is obtainable at from 7*s*. to 8*s*. per lb. for spot; to arrive, 6*s*. c.i.f. is quoted. COUMARIN is easier on the spot at from 10*s*. 3*d*. to 10*s*. 6*d*. per lb.; near at hand is offered at from 9*s*. 6*d*. to 10*s*. delivered. HELIOTROPINE is quoted at about 10*s*. per lb. METHYL ANTHRANILATE is not much inquired for at around 9*s*. per lb. METHYL SALICYLATE is weak at 2*s*. 1*d*. per lb. spot in cwt. drums. MUSK XYLOL is offered on the spot at 17*s*. to 17*s*. 6*d*. per lb., and AMBRETTE at from 105*s*. to 110*s*. SAFROL is easier at 2*s*. 9*d*.

Index Folio 183

per lb. spot. TERPINEOL.—Continental agents are offering at 1*s.* 6*d.* per lb. on the spot, but up to 2*s.* is quoted for French. VANILLIN is dearer on the spot, following the advance in cloves, and from 30*s.* to 32*s.* per lb. is now quoted from second-hands. Makers' prices range from 33*s.* to 35*s.*

Fixed Oils, etc.

THE tallow and palm-oil market is not quite so active the last day or two, but the tone of the market is still firm and values are quite steady. Linseed oil, after a brisk period, has quietened down, but values are showing up a shade dearer. All the following prices are per cwt.: Rape oil, refined 66*s.*, crude 58*s.*; ground-nut oil, deodorised 61*s.*, crude Oriental 56*s.*; coconut oil, deodorised 65*s.* 6*d.*, Ceylon 56*s.*, Cochin 75*s.*; palm-kernel oil, deodorised 60*s.* 6*d.*, crude 53*s.*; wood oil, Hankow 93*s.*, to arrive 67*s.* 6*d.*; soap stock, ground-nut 28*s.*; acid oils, coconut 41*s.*, palm kernel 40*s.*, ground-nut 30*s.*; fish oils, Japanese in cases 22*s.* 6*d.*, coast cod 24*s.* 6*d.*; tallow, Australian, fine mutton 41*s.* to 42*s.*, fine beef 44*s.*, good mixed 40*s.*, and inferior 32*s.*; bone grease, pale water 30*s.*, brown water 27*s.*, benzine 25*s.*; cottonseed oil, deodorised 56*s.*, common edible 51*s.*, soap-making 49*s.*, crude 45*s.*; castor oil, pharmaceutical 64*s.*, first pressings 59*s.*, second pressings 49*s.*; soya-bean oil, deodorised 55*s.*, crude Oriental 42*s.*; palm oil, Lagos 37*s.* 3*d.*, Bonny/Old Calabar/Opobo 36*s.* 3*d.*, New/Calabar/Brass/Niger 32*s.* The trade demand for linseed oil is perhaps not so good as it was for some few weeks past, but there has not been much giving way in prices, which must be attributed to the fact that there is no great amount of oil waiting for disposal. The tone continues chiefly in sympathy with that which prevails in linseed, for which the Continental demand has not been so lively. Very large quantities of seed are now afloat, particularly to this country, which may be regarded as a hopeful sign as to the development of the oil output. London closes at 40*s.* naked and Hull at 38*s.* 6*d.* per cwt. naked.

Pharmaceutical Chemicals

No change of any importance has taken place during the period over the holidays. Business has continued extremely slack, with values quoted, nominally in many instances, on about the same level as last week. Benzoic acid and sodium benzoate, theobromine and salts, bismuth salts and phenacetin are cheaper. Potassium sulphoguaiacolate is easier.

ACETANILIDE.—Crystals and powder are still weak, with only a poor demand at 1*s.* 4*d.* to 1*s.* 5*d.* per lb.

AMIDOL.—British makers' prices for bulk quantities are from 12*s.* to 15*s.* per lb.

ASPIRIN continues to be quoted unchanged at from 2*s.* 10*d.* per lb. upwards, with slightly higher figures for best makes.

ATROPINE SULPHATE is showing signs of weakening at 20*s.* to 21*s.* per oz.

BARBITONE is generally quoted at 15*s.* per lb., with one or two parcels at slightly less. Germany is a cheap seller.

BENZOIC ACID, ex toluol, is quoted at the lower figure of 1*s.* 10*d.* per lb. in 5-cwt. lots.

BETANAPHTHOL.—Resublimed is still without any buyers; orders could be placed at very cheap rates.

BISMUTH SALTS.—English makers have reduced their prices. The list quotations for lots of under 1 cwt. are now as follows: Carbonate 11*s.*, citrate 10*s.* 9*d.*, nitrate 6*s.*, oxide 12*s.* 4*d.*, salicylate 9*s.* 11*d.*, subchloride 11*s.*, subgallate 9*s.* 11*d.*, and subnitrate 9*s.* 2*d.* per lb. net. Competition from an outside source seems responsible for the decline.

BROMIDES.—Potassium crystals are 8*d.* to 9*d.* per lb.; ammonium is still uncalled for and is easy at 11*d.* to 1*s.* per lb.; sodium is 10*d.* to 11*d.* per lb.; the demand is still poor.

BUTYL CHLORAL HYDRATE is quiet at 11*s.* per lb.

CAFFEINE is in fairly good demand, the pure selling at from 19*s.* 6*d.* to 20*s.* per lb. for imported in quantity.

CALCIUM LACTATE is difficult to move, and values are easy at 2*s.* to 2*s.* 3*d.*

CHLORAL HYDRATE continues unchanged in value, but is quieter at 4*s.* 9*d.* to 5*s.* per lb.

CITRIC ACID lacks interest, and with ample supplies market is easy at 2*s.* 4*d.* per lb., less 5 per cent.

CREAM OF TARTAR meets with a fair though limited demand at from 130*s.* to 135*s.* per cwt.

CREOSOTE, B.P., appears to be wavering on a dull market, and is easy at 4*s.* 6*d.* per lb.

CREOSOTE CARBONATE has not improved in activity, and is still easy at 15*s.* per lb.

FERRUM REDACT. is quoted at from 3*s.* 4*d.* to 3*s.* 6*d.* per lb.; demand is small.

GUAIACOL CARBONATE.—Quotations average about 14*s.* 6*d.*, but are varying to some extent; business is still poor.

HEXAMINE is still slack with supplies plentiful, offering at from 4*s.* 3*d.* to 4*s.* 6*d.* upwards per lb.

HYDROQUINONE remains unsteady; buyers are not interested in offers as low as 4*s.* 9*d.* per lb.

METHYL SALICYLATE is still far from steady; quotations are, however, maintained at 2*s.* 3*d.* to 2*s.* 5*d.* per lb.

METHYL SULPHONAL.—U.S.P. is about 17*s.* 6*d.* and B.P. about 19*s.* 6*d.* per lb.; quotations are about the same, with the market still rather inactive.

METOL.—British makers' prices for bulk quantities are from 17*s.* to 20*s.* per lb.

PARAFORMALDEHYDE is stagnant; quotations are at 3*s.* 9*d.* per lb., but no record of buyers.

PARALDEHYDE is nominal at 2*s.* per lb.; it is not likely to fall any lower.

PHENACETIN continues sluggish, with values easier at 5*s.* 6*d.* to 5*s.* 9*d.* per lb.

PHENAZONE is offering in isolated cases slightly below the market price of 8*s.* per lb., but the demand is poor.

PHENOLPHTHALEIN from Germany continues to hold the market at 4*s.* per lb.

POTASSIUM PERMANCANATE continues steady, with limited sales at 1*s.* 2*d.* per lb. upwards for B.P. imported material.

POTASSIUM SULPHOGUAIACOLATE.—Quotations have now eased down to about 8*s.* to 8*s.* 6*d.* per lb.; the market is still slack.

QUININE.—Sulphate is quoted at 4*s.* 1*d.* per oz., less 5 per cent., and Japanese at 3*s.* 10½*d.* Hydrochloride is 3*s.* 10½*d.*

RESORCIN is in very little demand at about 8*s.* to 8*s.* 3*d.* per lb. for B.P.

SACCHARIN is in fair demand, 550 pure offering at about 129*s.* per lb., duty paid.

SALICYLATES.—Salicylic acid, B.P., is fairly well maintained at 1*s.* 2*d.* to 1*s.* 5*d.* for imported of guaranteed quality. Sodium salicylate continues quite steady, with no sign of receding, at 2*s.* 2*d.* upwards per lb.; market has a slightly better tone.

SALOL is in fair demand at about 2*s.* 8*d.* to 2*s.* 9*d.* per lb.

SILVER NITRATE.—The price on August 3 was based on a metal price of 38⅝*d.* per oz., as follows: In quantities of 25 oz., 2*s.* 5¼*d.* per oz.; 50 oz., 2*s.* 4¾*d.*; 100 oz., 2*s.* 4¼*d.*; 250 oz., 2*s.* 3¾*d.*; 500 oz., 2*s.* 3½*d.*

SODIUM BENZOATE is obtainable at 2*s.* per lb.

SODIUM DIETHYLBARBITURATE, B.P., after last week's drop, is steadier at 22*s.* per lb., but the market is still neglected.

SULPHONAL is weakening on a dull market, and is easy at 19*s.* 6*d.* per lb.

TANNIC ACID.—*Leviss* is unchanged at 4*s.* per lb., with the market still quiet.

TARTARIC ACID is in steady demand, with a scarcity of powder, for which 1*s.* 5½*d.* to 1*s.* 6*d.* is asked. Crystals are plentiful at 1*s.* 5*d.* per lb.

TERPIN HYDRATE is now steadier at the recent lower figure of 3*s.* 6*d.* per lb.

THEOBROMINE has been selling at lower prices by agents for the Dutch makers, who quote theobromine at 20*s.* and theobromine sodium salicylate at 12*s.* per lb., with quantity at slightly less.

Index Folio 184

Heavy Chemicals

London, August 3.

CONTINUED depression has marked the "heavy" market over the holidays. The limited sales taking place are generally for small lots only, with last week's prices still obtaining. It is not likely that further declines in values will take place, as a general steady improvement is confidently looked for in the near future.

ACETIC ACID continues listless; limited stocks are still offering at last week's figures of 41*l.* for 80 per cent. technical and 51*l.* to 52*l.* for 98 per cent. glacial.

ALUM shows no improvement in demand, although material is offering at low figures from the Continent; about 17*l.* to 18*l.* per ton are the nominal figures.

ARSENIC.—Some much cheaper offers have been heard of even in the case of white Cornish powder, and it is rather difficult to get hold of a reliable quotation for the moment. The figure of 44*l.* per ton given in various quarters is purely nominal. Demand is slow, buyers looking for concessions.

BARIUM CHLORIDE (98 per cent. to 100 per cent.) is nominal and without demand; some parcels are offering very low to clear, and Continental stuff is also cheap.

BARYTES is inactive; sales are occasional, with values remaining steady at 6*l.* per ton for grey, up to 10*l.* for best white.

COPPER SULPHATE.—The market continues to shape a course rather independent of that in rough bar-copper, while the firmness in both directions in the latter part of last week was rather a coincidence. Some sulphate makers recently put up their terms, while reporting a fair export business. The f.o.b. Liverpool quotation now varies at around 32*l.* per ton for casks, less 5 per cent.

COPPERAS.—Green crystals are still uncalled for; values are nominal at 5*l.* 15*s.* per ton.

FORMALDEHYDE shows a further decline, 40 per cent. solution offering at about 82*l.* 10*s.* per ton ex wharf London.

LEAD ACETATE continues quiet, with values still unsteady at 48*l.* per ton for brown broken and 52*l.* for white crystals.

LEAD PRODUCTS.—There is a satisfactory run of business in white-lead as well as red-lead and litharge, and quotations all round have remained as before. The works in most directions now show rather more inclination to increase output in anticipation of an increased demand towards the autumn.

LITHARGE.—British pure flake continues to be quoted at last week's advanced figures of about 38*l.* 10*s.* to 41*l.* per ton. There is not much movement.

LITHOPONE continues quiet, with the market still unsteady; values are about the same at about 29*l.* per ton for 30 per cent. Continental red seal and 32*l.* 10*s.* for light-resisting. Green seal is about 35*l.*

OXALIC ACID shows no improvement, and is unsteady between 9*d.* and 9½*d.* per lb.

POTASH CAUSTIC is still affected by keen foreign competition, and prices continue weak at 31*l.* per ton from makers, and some lots on the spot at about 33*l.* to 34*l.* per ton for 88 to 92 per cent. material.

POTASSIUM BICHROMATE is still in poor demand, with parcels on the spot at about 9½*d.* per lb.; makers quote at the old figure of 10½*d.* per lb.

POTASSIUM CARBONATE (90 to 92 per cent.) is unchanged at last week's reduced figure of 32*l.* per ton.

POTASSIUM CHLORATE continues slow, with holders of spot parcels and makers quoting about 5*d.* per lb. for crystals and powder.

POTASSIUM NITRATE.—The English makers of refined Bengal have made a reduction of 2*s.* per cwt. for either crystals or powder.

POTASSIUM PERMANGANATE continues to find buyers of limited lots at about 1*s.* 2*d.* per lb. for commercial quality imported material; home makers' prices are now down to 1*s.* 4*d.* per lb. for B.P. quality.

POTASSIUM PRUSSIATE is now quoted by makers at 1*s.* 2*d.* for yellow and 2*s.* 1*d.* per lb. for red, showing a slight reduction; spot lots are also at about these figures, but there is a very poor demand.

POTASSIUM SULPHATE is still quoted at about 18*l.* per ton ex ship for 90 per cent. material; market continues slack.

SAL PRUNELLA.—London makers have reduced their prices by 2*s.* per cwt.

SALTCAKE is being quoted from the Continent at very low figures, but there is no demand; some stocks are held on the spot, and values are nominal at about 7*l.* per ton.

SODA ASH (58 per cent. light alkali) is still only in small demand. Makers continue to quote at 8*l.* 10*s.* per ton for home trade and at about 10*l.* 5*s.* for export. Holders of spot parcels are offering at about 9*l.* 10*s.* to 10*l.* 10*s.* per ton f.o.b.

SODA CRYSTALS remain steady at the old figure of 7*l.* per ton ex works or station for home trade only, from makers; spot parcels ex store at same figure.

SODIUM BICARBONATE finds a steady sale in limited lots, with values well maintained; supplies are becoming a little easier; parcels on the spot firm at 12*l.* 10*s.* per ton; makers are quoting about 13*l.* per ton for refined material for export. There seems to be still some old damaged parcels on the market.

SODIUM CAUSTIC shows no improvement, and the market is still dull, with values unsteady at 22*l.* 10*s.* to 23*l.* for 70 to 72 per cent. f.o.b. for spot lots, and makers quoting (for home trade only) at 26*l.* 15*s.* per ton for 76 to 77 per cent. and 24*l.* 10*s.* for 70 to 72 per cent. f.o.r. American material is quoted at about same figures c.i.f. U.K. and Continent.

SODIUM CHLORATE is still offered by dealers and makers at about 4*d.* per lb., with a very slow demand.

SODIUM CYANIDE is steady on a dull market at 11*d.* to 11½*d.* per lb.

SODIUM HYPOSULPHITE continues rather weak, with the market still quiet. Pea crystals in 1-cwt. kegs are about 23*l.* for imported (mostly French); German is cheaper. Commercial quality is neglected at 16*l.* per ton. Home makers' prices are unchanged at 20*l.* for photographic and 16*l.* per ton for commercial.

SODIUM NITRATE is unchanged at 18*l.* 10*s.* per ton for 96 per cent. refined f.o.r. Liverpool, with the market still quiet.

SODIUM NITRITE is dull, with values quoted at last week's figure of 40*l.* per ton for 100 per cent. material.

SODIUM PRUSSIATE is moving in very limited lots only, and the market is well sustained at 7*d.* and upwards per lb. for spot lots; makers continue to quote at about 7*d.* also.

SODIUM SULPHIDE is now quoted by makers at the much cheaper figure of 25*l.* per ton for 60 to 65 per cent. concentrated in casks; spot lots of 60 to 62 per cent. solid find no buyers at 24*l.* per ton; market remains dull, with values weak.

Port of London Charges Reduced

The Port of London Authority give notice that on and after August 1, 1921, a reduction of 25 will be made in the percentage addition of February 7, 1921, to tariff dock and warehouse dues, rates, and charges. The percentage additions will then be as follows:

Dock and warehouse rates, charges, and rent on goods: 100 per cent., instead of 125 per cent. as formerly.

Dock dues and other charges (except rent) on vessels and lighters: 100 per cent., instead of 125 per cent. as formerly.

Dock dues on vessels in Class 1: 97½ per cent., instead of 122½ per cent. as formerly.

Rent on vessels and lighters: 85 per cent., instead of 110 per cent. as formerly.

The reduction will not apply to the following:

(1) Charges for any services performed or rent incurred before August 1, 1921.

(2) Goods ex ships which had broken bulk before August 1, 1921, for storage at rates including a period of rent or at commuted rent charges.

(3) Vessels which reported before August 1, 1921.

Similar notices have been issued by the Association of Public Wharfingers.

Italian Drug and Chemical Markets

Genoa, July 31.

JULY was a slightly better month for the Italian drug and chemical markets, and a certain number of orders were secured from clients, who purchased more through the fear of future increases in price rather than through urgent need.

The stocks of chemicals, pharmaceutical products, and drugs were not very large, and English exporters should do a fair business if they offer before prices advance too much. They should be able to get good prices, especially for such products as pyroligneous acetic acid, hydrochloric acid, borax, chlorate of potash crystals, calcium chloride, glycerin, glucose, caustic soda, etc., as the prices advanced during July. The new Customs duties on imported goods were as follows in the case of some essences, etc.: Angelica root, lire gold 290 per kilo.; cajuput, lire 10; chamomiles, lire 265; cananga, lire 40; cinnamon, lire 85; cardamom, lire 225; cognac, lire 160; geranium, lire 75; lavender, lire 100; sassafras wood, lire 20; marjoram, lire 25; nutmeg, lire 30; opoponax, lire 100; origanum, lire 20; patchouli, lire 185; petitgrain, lire 40; rosemary, lire 10; mustard seed, lire 55; ylang-ylang, lire 185, etc. The total importation of sugar into Italy during 1920 reached only 11,374 tons, against 73,465 tons in 1919 and 29,713 tons in 1918; this in the case of the purest product. Second-quality sugar was imported during 1920 to the extent of 1 ton only, against 6,015 tons in 1919 and 7,317 tons in 1918. During 1920 the different arrivals of first-quality sugar came from France (1,523 tons), Dutch East Indies (1,575 tons), United States (6,635 tons), Japan (430 tons), Egypt (326 tons), Argentina (11 tons), Brazil (241 tons), Cuba (179 tons), and other countries (451 tons). The exportation of sugar from Italy reached only 26 tons in 1920, 24 tons in 1919, and 106 tons in 1918. The effects of the new law prohibiting the importation of dyestuffs, and of the new law which gives the Italian Government the right of restricting the importation of pharmaceutical products, encouraged the Stabilimenti Chimici Farmaceutici Riuniti Schiapparelli of Turin to increase their capital from lire 9,000,000 to lire 15,000,000 through the issue of 80,000 new shares of lire 75. The English pound sterling started the month at lire 75.79 and ended it towards lire 86.50; the United States dollar started at lire 20.29 and ended towards lire 26.00; the French franc at lire 1.63 and ended at lire 1.80; the German mark remained towards lire 0.29. The above conditions had not the effect that might have been expected on the Italian drug and chemical markets, for only comparatively few prices increased, whereas another portion remained unchanged, and a much larger proportion fell further, despite the higher importation duties that came into force on July 1. Some of the current prices prevailing at the end of July were as follows, the exchange being reckoned at lire 86.50 to the English pound sterling:

Pharmaceutical Products

	Lire per 100 kilos.		Lire per 100 kilos.
Acetic acid, glac.	800	Glycerin, refined	650
Acetone, pure	1,000	,, d.d. s.g. 1·260 ...	850
,, commercial ...	450	Honey, white	600
Alcohol, denatured, 90° ...	375	Hydrogen peroxide (10 vol.)	80
,, ,, 95° ...	1,000	Magnes. carb., lump... ...	500
Ammon. carb., lump... ...	300	Magnesium chloride ...	105
Ammonium chlor., lump (98-100)	450	,, sulph.	40
Ammonium chlor., lump (95-96)	400	Naphthalene flakes	240
Antimony sulphide, lump ...	500	Oxalic acid, xtals.	850
,, ,, powder	550	Pot. chlorate, powder ...	360
Boric acid, crystals	700	,, ,, santonin xtals.	380
,, ,, large flakes ...	825	Potash permang.	1,000
Camphor tablets	3,000	Quinine citrate ...	70,000
Carbolic acid, cryst., 39° to 40° C.	750	,, sulphate ...	50,000
Carbolic acid, liq., 95 p.c. ...	350	Soda pruss., yellow	1,000
Castor oil, medicinal... ...	600	,, salicylate, xtals. ...	1,500
Ceresin, pure white	950	,, sulph., anhyd., fused ...	60
Cod-liver oil, medicinal ...	550	Sulphur, refined	85
Glucose, 45° Bé.	250	Vaseline, best white	900
		Wax, veg., Jap.	900
		,, carnauba	1,700

Heavy Chemicals

	Lire per 100 kilos.		Lire per 100 kilos.
Ammonia sulphate	115	Soda carbonate (Amer., 98 to 100 p.c.)	75
Bleaching powder	100	Soda carbonate (Eng., 98 to 99 p.c.)	70
Borax, crystals	400	Soda carbonate (French, 98 to 100 p.c.)	70
Caustic potash (70 to 75 p.c.)	450	Soda carbonate (Ital.) ...	80
Citric acid	2,250	,, caustic (76 to 78 p.c.) ...	200
Cream of tartar	900	,, caustic (70 to 72 p.c.) ...	170
Formic acid (80 to 85 p.c.) ...	750	,, crystals	45
Hydrochloric acid, 20° to 21° Bé.	32	,, hyposulphite	105
Lead carbonate	400	,, silicate, 140° Tw. ...	100
Nitric acid, 36° Bé.	155	,, sulphate, xtals. ...	40
Potash bichromate	600	Sodium sulphide (60 to 65 p.c.)	200
,, pruss., yellow... ...	1,300	Sulphuric acid, 66° Bé. ...	45
Soda bicarbonate	120	,, ,, 50° Bé. ...	19
,, bichromate	500	Tartaric acid	1,200
,, bisulphite, crystals, 32° Bé.	50		

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

The North Irish Meeting

SIR,—In your account of my statement at the council-meeting of the Pharmaceutical Society of Ireland (*C. & D.*, July 23, p. 46), and to which Mr. Bingham takes exception (*C. & D.*, July 30, p. 41), I may state I have been a little inaccurately reported. I clearly stated it was a representative meeting of pharmacists of the six Northern counties (the area of the Northern Parliament of Ireland), and did not say or wish to convey, as reported, that it was a North Irish Pharmacists' Association meeting. As Mr. Bingham's assertion that "no such meeting was ever held" might be construed, especially by the licentiates outside the six Ulster counties, as meaning that no meeting of the kind had been held, I wish to point out that the meeting referred to by me was held in Belfast on March 16 and was a most representative one of the six counties, at which a no-separation policy was adopted, and was reported in your issue of March 26, pp. 73 and 74. I may further add that the meeting was convened and the agenda drafted by the Committee of the N.I.P.A., and an announcement of it appeared in the *C. & D.*, March 12, p. 47, to that effect. . . .

Yours faithfully,

Belfast. WM. J. HARDY.

The Drug-trade in Ireland

SIR,—While so many of your readers are enjoying themselves by the "shimmering"—the adjective "sad" is inapplicable this year—"sea waves," it has been the writer's fate to revisit Ireland after an absence of many years. The outstanding feature which has struck me, and which must, I think, strike every pharmaceutical visitor, is the intimate connection between doctors and the drug-trade in this "disthressful counthry." In Great Britain every qualified medical practitioner, as chemists well know, is specially exempted from the Pharmacy Acts and fully qualified to keep open shop for the sale of poisons if he cares to do so. In practice, however, doctors do not avail themselves of this privilege—and it is one—and I do not know of a single instance of a doctor "keeping open shop" in England. Over here the doctors take an active part in the retail trade, and in Dublin alone there are quite a number of physicians and surgeons practising solely as retail pharmacists. In the provincial towns and villages the same conditions prevail, and it is quite common to see a shop called "So-and-So's Medical Hall" and a brass plate with the doctor's name and titles alongside the main entrance. This is a practice which I have previously only seen in Burmah, Ceylon, and a few other places. On attaining a registrable medical qualification in Great Britain a diplomate of the Pharmaceutical Society is removed from the Society's Register, but it is not so in Ireland; *au contraire*, the Irish Society has a special page in its Calendar devoted to licentiates who hold public appointments, and many of these gentlemen have attained very high distinctions indeed. An example is Sir William Whitla, who has attained fame not only as a physician but as a legislator. Sir William was for many years an examiner for the Irish Society. In view of this large sprinkling of professional men one would expect to see uppermost in Irish pharmacy the professional side of the craft, which formed the *motif*, if one might use the term, of Major Peck's "Dream of the Future of Pharmacy" unfolded at the British Pharmaceutical Conference. This, however, is not the case. The Dublin or Irish provincial pharmacy, although it may be described as a "Medical Hall," is conducted on thoroughly commercial lines. Indeed, all the newer establishments might have been transplanted direct from London, Manchester, or Brighton. A few of the older

firms have not changed materially the architecture of their interiors, but the windows are unrecognisable to the pharmaceutical Rip Van Winkle. As I remember them, the windows of the old medical halls displayed a few beautiful old carboys and specie jars, with—at most—a few of the firm's own specialities. Now the carboys and specie jars are as little *en évidence* as they are in London, and window-dressing is evidently cultivated to the fullest extent. One would expect the pharmacies under medical control to be less enterprising in this direction; but nothing of the sort—the doctors are as keen business men as their non-medical competitors. One of the doctor-chemists has a very good "draw" in his window to-day. It is a large sign card with the words "Our Centenary." Underneath is displayed the firm's prescription-book for the year 1821. It would be very interesting if this gentleman would send you a selection of recipes from this historical volume, which reflects great credit on the business methods of the house, as it is in first-class preservation and has been written by an excellent penman. So far as I can ascertain, the reason for the pharmaceutical medical practitioner, or, rather, medical pharmaceutical practitioner, in Ireland is that the dispensing doctor as we know him in England does not exist on this side of St. George's Channel. When an Irish pater- or materfamilias sends for a doctor he or she expects only medical advice and a prescription to send to the chemist. There is no such thing as the doctor himself "sending them round a bottle of medicine." This, of course, means a good deal of expense, and there are many occasions when it hardly seems necessary to incur it. It is here that the doctor-pharmacist comes in. He is able either to prescribe a suitable remedy or has one ready in proprietary form for the patient. As a rule no fee is paid for the advice. It is included in the charge for the medicine. The old-world apothecary therefore still flourishes in Ireland, and a very sound scheme it seems commercially. In all parts of London and the provinces what are called "lock-up surgeries" flourish. These establishments are for certain hours of the day nothing more nor less than "apothecaries' shops," where advice and medicine are given for a fixed sum per head. This is a very uneconomic arrangement, as the surgeries are located in premises designed for use as shops. It would be bad business to keep any ordinary shop open for only two or three hours in the morning or evening. No ordinary commercial undertaking could possibly pay if conducted on these lines, and this is exactly what the Irish doctor-pharmacist realises. He runs his "lock-up surgery" for such hours as he finds convenient, but he does not shut it up when he is not there. When he is not selling remedies his assistants continue to utilise the premises and turn many honest pennies by selling soaps, scents, and even non-medical profitable extras, such as cameras and the like. He is a very fine business man, the Irish apothecary of to-day, and, in the language of his country, "more power to him" says

Yours sincerely,
A Cosmopolitan Chemist (30/7).

The Qualifying Examination

Sir,—The results of the midsummer examination show that another 338 chemists and druggists have been added to the Register; as the entries total over 1,300 the customary pass of a third is reduced to a quarter, so that three-quarters of the entrants have been ploughed, it will be interesting to see if "Truth" has any further comments to make on the subject. And the original question arises in greater force than before, What is to become of them now? In the *C. & D. Supplement* of July 30 there are four columns of "Situations wanted" to two columns of "Situations open," so that the prospect for the newly qualified is by no means cheerful. And this again will have a further depreciating effect on the rate of wages, tending to lower a scale that is already too low, and although the official index figure for the cost of living has dropped to 119, in actual practice we find that expenditure is still going up. The further increase in rent comes into force this week, coals have risen several shillings a ton, gas has advanced about 25 per cent. (although nicely camouflaged by charging for therms instead of per thousand), water rates are soon to be increased, and owing to the drought the prices of foodstuffs in the shape of vegetables and so on are mounting higher and higher. No wonder the Labour Committee draws attention to the fact that the Board of Trade figure is certainly 28 points lower than it should be. I see that "Jay Mack" states that to ease the situation ten million of us are due to emigrate, but the trouble is where to go, as one reads pitiful tales of emigrants being returned home by colonies which are full up and have no opening for them.

Yours faithfully,
Sub Indice (29/7).

Profits on Proprietary Medicines

Sir,—It is not often that patent-medicine proprietors tell us how much they lose by pushing their specifics. Therefore the July issue of "Lightning Dash" is interesting, because it purports to show that the Veno Drug Co. is carried on for the benefit of the retailers, who alone "pocket the cash profit by the very minimum of effort," and that there would be a dead loss to the trade if the commodity were not in existence. Last year the Veno Co. spent 61,636*l.* in advertising—47.75 per cent. of the gross returns. Assuming that medicine-stamp duty was 25 per cent. and bottles dear in proportion, we come to the conclusion that the actual ingredients for the cure of consumption are not too expensive for the Government to distribute by the gallon at the tuberculosis clinics. Those who know most of the patent-medicine trade, wholesale and retail, will acknowledge that it is not the most profitable business to-day. If the manufacturers who carry on for philanthropic purposes close down, the chemists will have to fall back on penn'orths of oxymel scillæ and zinc ointment. Yours, etc.,
Unconvinced (29/7).

Postage Rates

Sir,—It is generally believed that the Postmaster-General will lose more than he will gain by raising the postal rates. In a small way no business will suffer more than that of the chemist, because the costs are so much out of proportion to the value of stuff sold. By post a 2*s.* mixture becomes 3*s.* Those who have a large postal trade for 1*s.* 1½*d.* articles will suffer most. Here is an instance. A customer writes: "Please send a bottle of ——, 1*s.* 3*d.*" It costs the customer 2*d.* to send the order, and the chemist 2*d.* at least for delivery=1*s.* 7*d.*; if not prepaid, 2*d.* more to remit, and probably 1*d.* for receipt. The Inland Revenue first claim 3*d.* stamp duty. In itself this particular transaction does not appear worth attention, but in the aggregate with wages and expenses it renders business profitless. Yours truly,
Clear View (2/8).

Insurance Prescriptions

Sir,—The letter issued by the Fife County Insurance Committee (*C. & D.*, July 23, p. 59) to the chemists on the panel draws attention to the incomplete way in which many Insurance scripts are written, and the remarks contained in it would apply equally well to those written South of the Tweed. The experiences of an English panel chemist on these various items may therefore prove interesting. *Item 1*, scripts not written on official forms: These are promptly returned by the pricing bureau as out of order, and so are never accepted. *Item 2*, full Christian names, surname, and address of patient: These details are more often honoured in the breach than in the observance, scripts being frequently made out to plain Jones or Brown, without any initial or title or address at all, and pass without question. *Item 3*, date of issue: This is omitted occasionally, but is probably due to forgetfulness. *Item 4*, not written in full: This remark is not quite plain; it surely does not mean written in full Latin instead of the universally accepted abbreviations. *Item 5*, not wholly written and signed by the doctor: This presumably refers to cases where an unauthorised person, such as a member of the doctor's

family or a dispenser, copies out the script when the doctor is busy or out visiting, and is a matter which should be taken up with the medical man by the Committee, instead of throwing the onus on the pharmacist, who may not be familiar with the handwriting. *Item 6*, doubtful quantities: These are met in England by supplying a reasonable amount and noting the same on the script. *Item 7, re* index-number: This does not apply in England. *Item 8*, no dispensing-stamp: These scripts are always returned to be stamped and included in the next batch. This makes a long list of details that require watching to keep in order, and by throwing the burden on the chemist it places him in an invidious position, as he has to face the friction with the customer if he refuses to dispense, and on the other hand incurs the enmity of the practitioner whose account is discounted. The last paragraph states that doctors are obliged to hand the patient both A and B forms, one being a carbon copy of the other. Not long ago a doctor in South London flatly refused to provide carbon copies of scripts, and on inquiry he was held to be acting within his right. Are the Scottish regulations different in this matter?

Yours faithfully,

ITEMISER (23/7).

Legal Queries

R. S. (16/7).—The requirement of the Poisons and Pharmacy Act, 1908, s. 3 (4), as to limited companies, is that branch shops not personally conducted by the superintendent of the company must be carried on under the superintendent's direction by a qualified chemist, whose certificate of qualification must be conspicuously exhibited in the shop. Where a company uses the title "chemist," the superintendent must be a member of the board of directors of the company.

Request (22/7) recently had a parcel of goods consigned to him by rail, in Ireland, carriage paid. The train conveying the goods was destroyed, and with it the goods themselves. Is it the duty of "Request" or his suppliers to make a claim against the railway company? [Unless the suppliers accepted responsibility for the goods up to the time of actual delivery it is the duty of "Request" to make a claim against the railway company. The mere fact that the goods were sold "carriage paid" does not affect the ordinary rule that when a seller has handed goods to a carrier for conveyance to the buyer they are thereafter at the risk of the buyer.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. M. W. L. (21/7).—FILLING UP CRACKS in metal is managed by mixing either iron filings or iron turnings with solution of ammonia chloride and stamping the mixture into the crack. In a short time the iron rusts and becomes a hard mass. The process is known as "rusting up."

A. S. (13/7).—(1) The colouring agent of the cough-mixture you send is acid magenta. (2) CARBOLIC TOOTH-POWDER.—The base of this consists of a mixture of chalk, magnesium carbonate, and a siliceous earth (probably kaolin) in approximately equal proportions. A little sugar is also present.

L. F. M. (23/7).—GROWING MEDICINAL PLANTS on a small scale is more a hobby than a profitable proposition, although during the war belladonna and hyoscyamus were cultivated successfully by some chemists. Mr. Beetham Wilson, of Dorking, described his belladonna fields in the *C. & D.*, 1916, p. 772, and a description of the herb-growing carried out by Duncan, Flockhart & Co. was given in the *C. & D.*, I., 1921, p. 293. Stock of various plants can be had from Mr. E. M. Holmes, Sevenoaks, or Mrs. Grieve, Chalfont St. Peter, both of whom publish pamphlets on medicinal plant growing.

H. J. S. (22/7).—SEALING-WAX is mainly soluble in alcohol, but the colouring matter in some cases would only be suspended. Such solutions are used for ticket-writing.

J. D. M. (25/7).—"CALIFORNIAN BEES" is a fancy name for the ginger-beer plant, regarding which many references have appeared in the *C. & D.*, e.g. I., 1920, p. 294, and I., 1921, p. 667.

W. A. (24/7).—BLACK VULCANITE that has become bleached through exposure to light cannot be restored, but is improved by repolishing with sweet oil and putty powder.

O. F. H. (28/6).—PLASTERER'S MODELLING WAX.—An examination of this sample for substances relating to waxes, paraffins, etc., showed them to be entirely absent. It was found to contain a nitrogenous body, probably of the casein type and admixed with calcium, but the characteristics of the organic matter do not conform strictly with those of ordinary milk-casein. There appears to be also present a proportion of siliceous earth, probably kaolin.

D. S. (6/7).—LIQUID USED FOR REDDENING THE COMBS OF POULTRY.—This solution contains about 10 per cent. of glycerin in dilute alcohol, and is perfumed with oil of rosemary. Its specific gravity is a little less than unity, and it is practically free from mineral matter. The liquid probably owes its virtues to the fact that the comb appears redder when wet, the glycerin keeping it moist.

Nemo (3/8).—(1) ADULT COUGH MIXTURE. "P.F. 8":

Tinct. camph. co.	♏xv.
Vin. ipecac.	♏v.
Oxy. scillæ	♏xxx.
Syr. tolu	♏xv.
Syr. rhœados	♏xv.

in each teaspoonful. (Condensed by using liquors.)
(2) BOOT POLISH.—See *C. & D.*, I., 1921, p. 32.

W. J. P. (3/8).—REMOVING DEVELOPER STAINS.—After developing, moisten the fingers and finger-nails with solution of potassium permanganate (½ oz. to 16 oz.), rinse with water, and immerse in the following solution:

Sodium sulphite ...	1 oz.
Acetic acid	1 oz.
Water	8 oz.

Another suggestion is to employ solution of chlorinated lime.

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," August 15, 1871

Health in the Water-cart

The Commissioners of Sewers of the City of London have recently decided to test the advantages to be derived from the use of Cooper's patent salts for street-watering. The area selected seems well adapted, it being one of the most important thoroughfares in the City, viz., from Holborn Bars to the east end of the Viaduct. The time of year chosen, and the period of three months resolved upon, are evidences that the Streets Committee have used considerable judgment in trying an experiment of this nature during the months of June, July, and August, the summer season being the proper time to judge of the sanitary advantages and economical benefits which are derivable from the use of these deliquescent chlorides (of a deodorising nature) mixed with the water in the water-carts. The *modus operandi* is very simple. A covering of perforated zinc is fixed over the valve in the water-cart, to prevent the salts from getting into the distributor and choking it. The salts necessary for the day's use are placed on the cart in baskets of a convenient size, and the contents of one basket is put into the empty cart before filling it with water. The water is then turned on, and by the time the cart is filled the salts are thoroughly dissolved. The patentee claims for his invention that it retards evaporation, attracts moisture from the atmosphere, has the great sanitary powers known to chlorides in purifying the air, arresting putrefaction, etc.

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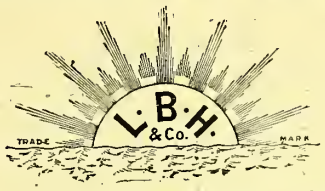

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Antim. Nig. Pulv., 7 lbs. @ 7d. lb.
Bals. Copaibæ, 44 lbs. @ 2/9 lb.; 7 lbs. @ 3/2
Bismuth, Carb., 3 lbs. @ 12/- lb.
Bismuth, Subnit., 3 lbs. @ 10/2 lb.
Caffeine, Pur., 1 lb. @ 28/- lb.
,, Cit., 1 lb. @ 18/9 lb.
Calcii Lactas, 1 lb. @ 4/- lb.
Campbor Flor., 5 lbs. @ 5/9 lb.
,, ¼-oz. Tabs., 7 lbs. @ 5/10 lb.
Chlorodyne, 5 lbs. @ 3/6 lb. [@ 5/2 lb.
Chloroform, Pur., 8 lbs. @ 4/8 lb.; 6 x 1 lb.
Cream Tartar Pulv., 7 lbs. @ 1/7 lb.
Dec. Senegæ Conc., 6 lbs. @ 4/4 lb.
Eserine Sulph., 15-gr. tubes @ 4/3 each.
Ess. Lemon Opt., 6 x 1 lb. @ 4/3 lb.
Ext. Bellad. Vir., 7 lbs. @ 7/3 lb.
,, Cascar. Liq., P.B., 9 lbs. @ 2/8 lb.
,, Ergot. Liq., P.B., 5 lbs. @ 10/- lb.; 1 lb. @ 10/6 lb. [@ 18/- lb.
,, Ipecac. Liq., B.P., 5 lbs. @ 17/6 lb.; 1 lb.
,, Glycyrrb. Liq., B.P., 6 lbs. @ 3/8 lb.
Ferri Ammon. Cit., 7 lbs. @ 4/1 lb.
,, Quin. Cit., 16 oz. @ 1/2½ oz.
Glycerine Opt. D.D., 1,260 P.B., 1 cwt. @ 145/- cwt.; 56 lbs. @ 150/- cwt.; 12 lbs. @
Guaiacol Carb., 1 lb. @ 19/- lb. [1/6½ lb.
Gum Acaciæ sorts, 3 cwt. @ 67/6 cwt.; 1 cwt. @ 67/6 cwt.; 7 lbs. @ 9d. lb.; English Ground Powder, No 1, 1 cwt. @ 156/- cwt.; 7 lbs. @ 1/6 lb.; No. 2, 1 cwt, @ cwt.
Hexamethylenetetramine, 1 lb. @ 6/3 lb.
Hyd. Ammon., 7 lbs. @ 6/6 lb.
,, Oxid. Rub., 7 lbs. @ 6/6 lb.
Hyd. Perchlor., 7 lbs. @ 5/6 lb.
,, Subchlor., 7 lbs. @ 6/- lb.
Inf. Buchu Conc., 5 lbs. @ 6/- lb.
,, Calumbæ Conc., 5 lbs. @ 1/9 lb.
,, Caryoph. Conc., 5 lbs. @ 2/1 lb.
,, Cinchon. Acid Conc., 5 lbs. @ 3/- lb.
,, Rhei Conc., 5 lbs. @ 3/6 lb.
,, Senegæ Conc., 5 lbs. @ 3/11 lb. [lb.
Iodoform Pulv., 7 lbs. @ 23/- lb.; 1 lb. @ 23/6
Iodum, Resub. 7 lbs. @ 19/6 lb.; 1 lb. @ 20/-
Lin. Bellad. Mentb., 5 lbs. @ 4/6 lb. [lb.
,, Camph. P.B., 9 lbs. @ 2/6 lb.
,, Saponis Metb., 9 lbs. @ 1/9 lb.
,, Tereb. P.B., 5 lbs. @ 1/6 lb.
,, Tereb. Acet., 5 lbs. @ 2/- lb.
Liq. Ammon. Acet., 1-7, 6 lbs. @ 1/6 lb.
,, Bismuth Am. Cit., 6 lbs. @ 1/7 lb.
,, Morph. Mur. or Acet., 5 lbs. @ 5/- lb.
Lithia Cit. or Carb., 1 lb. @ 10/3 lb.
Magnes. Sulph., 1 cwt. @ 17/- cwt.
Menthol Cryst., 5 lbs. @ 21/- lb. [@ 14/- oz.
Morph. Mur. or Acet., 16 oz. @ 12/11 oz.; 1 oz.
Ol. Anisi, E.I., 16 lbs. @ 3/- lb.; 5 lbs. @ 3/3.
Ol. Cassia, 16 lbs. @ 4/10 lb.; 5 lbs. @ 5/4 lb.
,, Caryoph., 5 lbs. @ 8/- lb.
,, Eucalypt., P.B., 1 cwt. @ 2/1 lb.; 28 lbs. @ 2/3 lb.; 9 lbs. @ 2/6 lb.
,, Menth. Pip. Wayne, 10 lbs. @ 18/- lb.; 1 lb. @ 18/6 lb.
,, Menth. Pip. Japan, 5 lbs. @ 5/6 lb.
,, Morrhuæ, 1921, 2 galls. @ 6/- gal.
,, Olivæ, P.B., 2 galls. @ 14/- gall. [10½d. lb.
,, Ricini Insip., 88 lbs. @ 78/- cwt.; 9 lbs. @
,, Wintergreen, Art., 5 lbs. @ 3/6 lb.
Oxymel Scillæ, B.P., 5 cwt. @ 60/- cwt.; 1 cwt. @ 62/6; 7 lbs. @ 1/ lb.
Paraff. Molle Flav., B.P., 3 cwt. @ 58/- cwt.; 1 cwt @ 70/- cwt.; 28 lbs. @ 8½d. lb.; 7 lbs. @ 9½d. lb
Pepsin, B.P., 1 lb. @ 27/- lb. [@ 1/4 lb.
Petrol. Jelly Alb., 3½ cwt. @ 118/- cwt.; 28 lbs.
Phenacetin, 1 lb. @ 8/6 lb.
Phenazone, 1 lb. @ 10/6 lb.
Potass. Acetas, 28 lbs. @ 3/3 lb.
,, Bicarb. 7 lbs. @ 1/1 lb. [lb.
,, Bromid., 1 cwt. @ 1/0½ lb.; 7 lbs. @ 1/2
Potass. Citras., 7 lbs. @ 4/7 lb.
Potass. Iodid., 3 lbs. @ 16/4 lb.
,, Permang., 7 lbs. @ 1/9 lb.
Pulv. Glycyrrh. Co. B.P, 56 lbs. @ 120/- cwt.; 7 lbs. @ 1/2½ lb.
Quinin. Sulph., 25 oz. @ 4/5 oz.; 3 oz. @ 4/7.
,, Hydrochlor., 25 oz. @ 5/- oz.; 4 oz. @ 5/3 oz.
Rad. Calumb., 1 cwt. @ 36/- cwt.; 7 lbs. @
,, Jalap., Pulv., 7 lbs. @ 4/3 lb. [4½d. lb.
,, Rhei, E.I., Pulv., 7 lbs. @ 5/6 lb.
Resorcin, 1 lb. @ 12/- lb.
Sacch. Ust., 10 lbs. @ 11½d. lb.
Salol, 7 lbs. @ 4/6 lb.
Soda Bromid., 7 lbs. @ 1/4 lb.
,, Hyposulph. Parv., 1 cwt. @ 34/- cwt.
,, Salicylat., 7 lbs. @ 2/10 lb. [6/4 lb.
Spt. Æther Nit., P.B., 4½ lbs. @ 6/- lb.; 1 lb. @
,, Ammon. Arom., P.B., 5 lbs. @ 4/6 lb.
,, Chloroform, 5 lbs. @ 5/- lb.
Syr. Aurant., 7 lbs. @ 2/- lb.
,, Ferri Iodid. 7 lbs. @ 2/- lb.
,, Easton's, 7 lbs. @ 2/2 lb.
,, Ferri Phosph. Co., 7 lbs. @ 1/- lb.
,, Tolut, 7 lbs. @ 1/1 lb.
Tinct. Aurant. P.B., 5 lbs. @ 16/6 lb.
Tinct. Belladon., B.P., 5 lbs. @ 5/- lb.; Aquos, 2/- lb.
Tinct. Benzoini Comp., P.B., 5 lbs. @ 5/9 lb.
,, Camph. Co., P.B., 5 lbs. @ 3/10 lb.
,, Camph. Co., Aquos., 5 lbs. @ 2/1 lb.
,, Cinchon Comp., P.B., 5 lbs. @ 5/- lb.
,, Digitalis, 5 lbs. @ 4/8 lb.
,, Iodi. Mit., 5 lbs. @ 6/- lb.
,, Iodi. Fort., 5 lbs. @ 8/6 lb.
,, Opii, B.P., 5 lbs. @ 4/9 lb.
,, Opii Aquos., 5 lbs. @ 3/6 lb.
,, Rhei. Co., P.B., 5 lbs. @ 3/7 lb.
,, Rhei. Co., Aquos., 5 lbs. @ 2/1 lb.
,, Valerianæ Ammon., P.B., 5 lbs. @ 4/2 lb.
,, Zingib., P.B., 5 lbs. @ 6/- lb.
,, Zingib. Fort., 5 lbs. @ 6/2 lb.
Ung. Acid. Boric Alb., P.B., 28 lbs. @ 1/4½ lb.
,, Gallæ c. Opio, P.B., 7 lbs. @ 4/- lb.
,, Hydrarg., P.B., 7 lbs. @ 2/8 lb.
,, Sulph., B.P., 28 lbs. @ 1/3 lb.; 7 lbs. @ 1/5 lb. [1/5 lb.
,, Zinci Ox., P.B., 28 lbs. @ 1/3 lb.; 7 lbs. @

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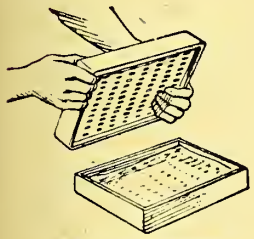


The Capsule Mould.

The Hydraulic Press.

THE Coat or Casing of the Capsule is made entirely from Gelatine and Glycerine. Only the finest crystallized gelatine is used which ensures the Capsule keeping good in any climate, and from becoming pitted or mouldy. The gelatine is dissolved in the glycerine in a steam pan and is poured into the hopper of a running machine. A series of bright metal plates are then pushed under the hopper and a supply of the hot liquid poured upon them. These pass through a gauge which regulates the thickness of the coat, which averages from one-sixth to one-tenth of an inch, according to the size of the capsule.

The liquid has now set to the consistence of a jelly upon the plates. These are removed to an oven to go through a course of baking to remove all excess of moisture. The Capsule Moulds are then arranged upon a hot table. These moulds consist of two steel dies fitting one above the other, with the shape of the upper and lower half of the capsule upon them. The number made at a time varies with the size of the Capsule—the following gives the number made in one pressing:—

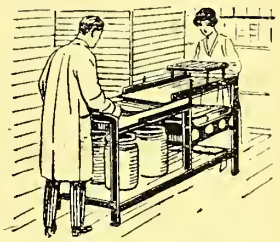
3 minims	280 capsules		15 minims	140 capsules	
5 ,,	210 ,,		20 ,,	140 ,,	
10 ,,	180 ,,		30 ,,	70 ,,	
5 minim (perles)	240 perles.				

The gelatine sheets are then stripped from the plates and one is laid upon the bottom half of the mould. The medicament is placed upon it—if liquid it is measured—if in solid form it is weighed and spread evenly over the surface.

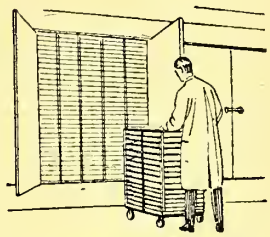
The second sheet of hot gelatine is placed on top of the medicament, all trace of air bubbles being carefully removed by careful manipulation and the top half of the mould is fitted.

The whole is placed in a powerful hydraulic press. A vigorous action of the pump soon raises the ram to the maximum pressure indicated upon the pressure gauge. This unites the two sheets of gelatine so that the join in the capsule is hardly noticeable.

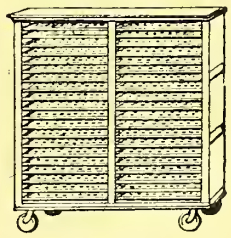
The Capsules are taken from the mould and are washed to remove any trace of the drug used in the manufacture being on the outside casing. The Capsules are laid upon trays to dry, and then polished. They are counted and packed in tins or boxes and are ready for sale.



The Running Machine.



The Baking Ovens.



The Drying Trays.

For export, all Capsules are specially hardened to withstand the various climatic conditions, the latter process being one of the so-called secrets of the trade. Probably each house has its own method of hardening but the use of spirit and air fans is the one in common use. The department is divided into two sections—Medicinal and Veterinary Capsules. The latter includes Capsules for large and small Dogs, Pigeons and Poultry, and some of the largest proprietary lines in the Country are now made here. *Price Lists sent on receipt of Business Card.*

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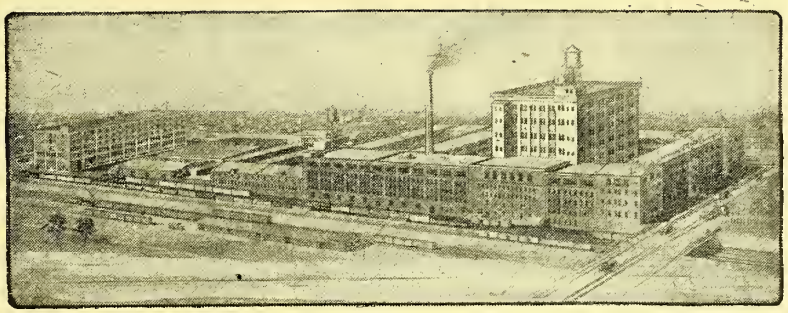

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5 - oz.	TRIAL SIZE	2/-	18/-
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NO SUGAR REQUIRED.

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Chemists charge according to their own scale for dispensing.

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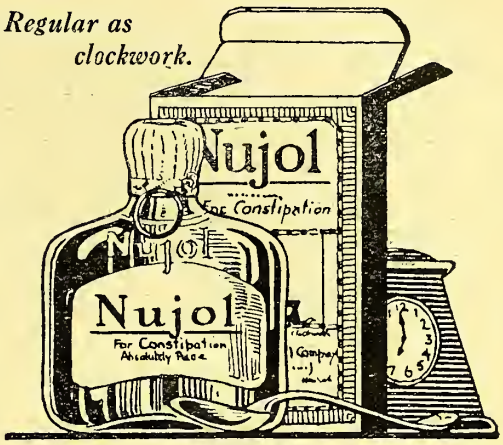

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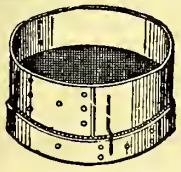

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SALVO PETROLIA
The Perfection of Petroleum Jelly
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THE DEE OIL COMPANY, Ltd.
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Packed in barrels, kegs and smaller packages according to requirements.
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As supplied for many years to the leading Houses for Pills, Cachous, &c.
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SHEEP DIPS Poisonous and Non-Poisonous **of all kinds.**
DISINFECTANT SOAPS of all kinds.
Sole Proprietors and Manufacturers of
PHENOID (formerly called PHENYLE).

DISINFECTANTS of all kinds, including LYSOL SUBSTITUTE and High Co-Efficients.

Largest Makers of Non-Poisonous Sheep Dip in the World.

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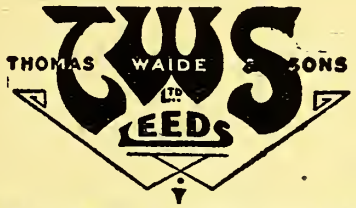
Labels, Cartons, Pockets, Handbills,

are daily requirements of the Chemist. Send your next enquiry to . . . . . .



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What it is.

BISHOP'S
Natural Fruit Saline

is free from sugar or saccharine, yet makes a delightfully palatable beverage. Clears the liver and kidneys, and acts as a laxative. It is manufactured in small granules and keeps well in any climate.

It pays to push BISHOP'S !

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BISHOP'S
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P.A.T.A.

Wholesale price, **20/-** per dozen.

5 dozen - -	£5 0 0
10% discount	10 0
Net	£4 10 0

Carriage Paid.

Thus showing a profit of **9**d. per bottle.

Attractive show material and price cards sent with each order.

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HANDSOME PROFITS ASSURED. WINDOW DISPLAYS.
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POSSIBILITIES OF

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Reduced Price List can be had on application.
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THIS MEANS THAT

Mason's Extract of Herbs

Will be in big demand this season

and chemists are requested to replenish their stocks.

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NOTTINGHAM.

Dr. Allinson's Food Preparations
FOR ALL AGES AND CONDITIONS OF HEALTH AT FIRM AND PROTECTED PRICES.

Food for Babies, Prepared Barley, N. F. Cocoa, Biscuits, Wholemeal, &c.

See Trade Mark "T. R. Allinson" on all our goods—None Genuine Without.

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We issue a list of WHOLESALE HOUSES who keep above in stock, if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return.

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All advertising matter—Booklets, Window Displays, Showcards, etc., free on application.

N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade, and we are pleased to exchange any article which may be out of condition.

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The new vitalising food proved to contain the three principal vitamines

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Manufacturers: *Food Specialists,*
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You can meet any competition with our new

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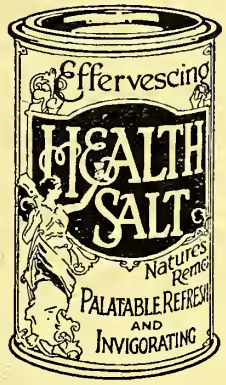

A fine white mobile Powder, dissolving with sustained effervescence.

Packed in Handsome Decorated Tins, rendered air-tight by our special process.

Contents guaranteed 4 oz. net weight.

May we send you Sample Tin and quotation?

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"CROWN" Brand
LIEBIG'S MEAT & MALT WINE.

"WIN-FERRO"
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LIME JUICE CORDIAL AND LEMON SQUASH.

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(Established 1847)
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Highest Awards at all International Exhibitions where shown.

PLUMS DAMSONS GREENGAGES
Perfectly Preserved for future use by
Universal Preservative
Tin sufficient for 80 lbs. of Fruit for 1/-
NO BOILING. NO STERILIZING.
SIMPLE. - - INFALLIBLE.
From Stores, Grocers, and Chemists.

Samples & Wholesale Terms from Sole Makers—
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CHEMISTS' OVERALLS
From GARDINER & CO.
We supply protective overalls in any colour or style required. They are made by experienced hands for all branches of the Chemical trade.

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Sizes 34, 36, 38, 40, 42 and 44 inches over waistcoat.
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FOR INK.

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Combined Preservative and Stain for Wood.

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CARAMEL COLOUR
in Powder.

Guaranteed Harmless.

50 times the concentration of Liquid Caramel.

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with your name and address on label.

Contracts are now being booked for

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MALT EXT. with COD LIVER OIL

Guaranteed 15% B.P.C. and N.H.I. standards.
In bulk, bottles, or other containers.

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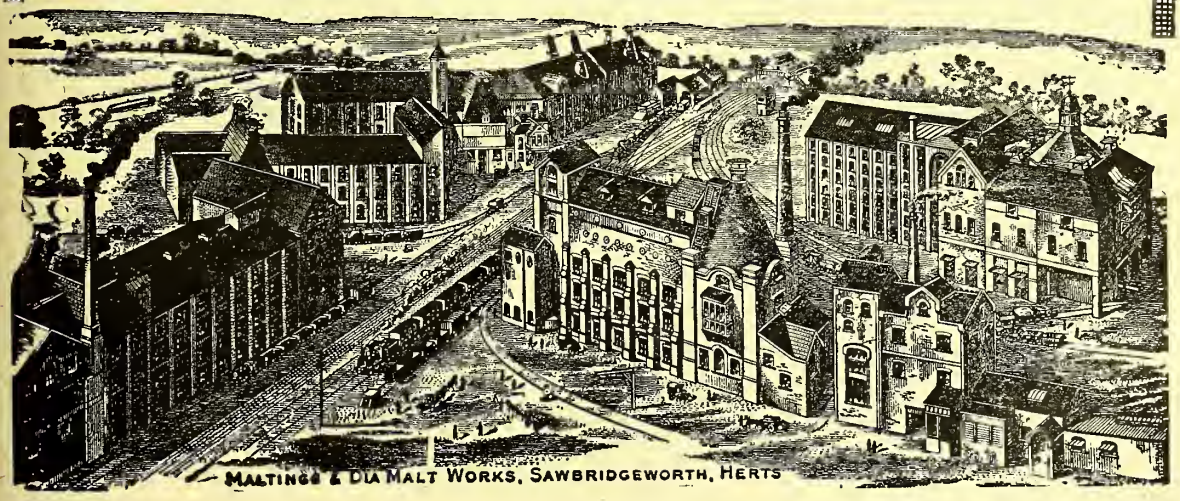

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Sponge Bags,
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Fully Protected by Patents.

You can safely recommend it.

Has no rival on the market, is well advertised, pays a good profit, quality guaranteed. The MARVEL is returnable for exchange if found defective and reported promptly.

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OILED SURGICAL SILKS

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and all similar articles.

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Boracic Socks

Fixed Selling Price, 6d. per pair.
Cost, 4/- per dozen.
Six dozen lots, 46/- per gross.

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THREE STAR

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and have **THE BEST.**

Ask your Factor for "Three Star," or write direct to the Manufacturers

Made entirely in England with British Capital and British Labour

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'MILNER' Straw Hat Cleaner

12 years' reputation—testimonials constantly received. 3*d.* per packet.

PRICES:
6 dozen, **10/-** net
12 ,, **19/-** ,,

With attractive show matter—carriage paid—13 to dozen for cash with order.

Discount. — Orders of £1, 2½%; £5, 5%; £10, 7½%.

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CATTLE WASH
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PACKED UNDER CHEMIST'S OWN NAME IF REQUIRED
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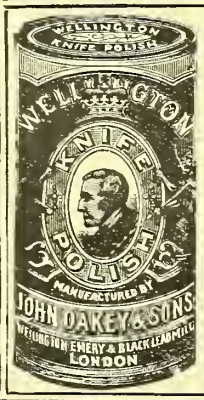

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The original and only reliable preparation for Cleaning and Polishing Cutlery, &c.

In Canisters, 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

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The Original Preparation for Cleaning Cutlery. Canisters, 1*d.*, 2*d.*, 3*d.*, 6*d.*, 1*s.*, 2*s.* 6*d.*, and 4*s.* each.

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For Cleaning & Polishing Silver, Electro-Plate, etc. Tablets, 6*d.*

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In Solid Blocks, 1*d.*, 2*d.*, and 4*d.* each, and 1*s.* Boxes.

Polishing Paste, Furniture Polish, Plate Powder, Rouge, Urn Powder, Steel Polish, Crocus, Tripoli, Brunswick Black.

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Great Reductions in Prices.

½ oz. (hold 2 dr.)	1 oz. (hold ½ oz.)	C.D.	
1/6	1/8		per grs.
1 oz.	2 oz.	4 oz. deep	
1/9	2/11	3/9	per grs.

and all sundries at keen prices.

¶ Owing to these abnormal times, we will pay carriage on all orders for a further two weeks from this date.

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Abdominal Belts
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Maternity Corsets, etc.
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Established 35 Years.

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PADS—Various Shapes and Sizes, Hard or Soft.
ABDOMINAL SUPPORTS,
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ALTERATIONS FREE IF NOT SATISFACTORY.
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The superiority of the Nestlé Feeding Bottle is so obvious that doctors are advising it, nurses are recommending it and mothers insist on having it. Nothing is good enough for their little ones but a bottle which is perfect in hygienic construction; which cannot possibly harbour dirt or disease germs and which ensures that the food is taken without undue effort or excessive air.

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Easy to sell; brings good profit and rapid turnover. Write to-day for full details and current trade price list.

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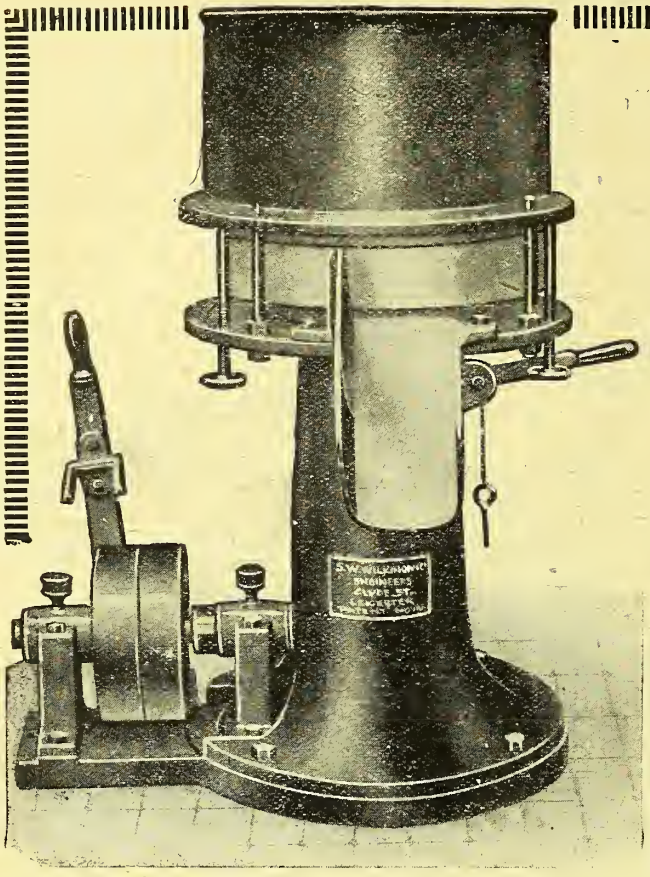

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Combined Mixing & Grinding

MILL.

Ointment. Tooth-Paste.

FOR PERFECTLY MIXING dry powders with a liquid, or semi-liquid, then grinding the whole into a velvety, smooth, homogeneous paste.

ANY degree of fineness or coarseness may be obtained by adjustment while the mill is running.

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Specialists in Chemical Machinery,
WESTERN RD., LEICESTER.

Telephone: 3783 Cent. Grams: "Wilkinson, Leicester 3783"

[1]

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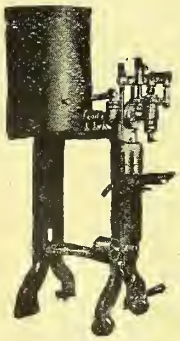
BOTTLE-FILLING MACHINES



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Don't waste money on imitations, buy **Roberts' Machines** which actually **Created the Records** for **CLEANLINESS SIMPLICITY** and **Rapidity in Bottle Filling.**

NOTE the Address:

ROBERTS' PATENT FILLING MACHINE Co.
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Our latest patent "Alpha," price **£14**, will fill 10 gross bottles per hour.

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SIFTERS & MIXERS

Simple, Strong, Speedy, Reliable, Durable—these words describe their efficiency.

BALL MILLS

HIND & LUND, LTD.,
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Established 1791.

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Owing to the War, the supply of Crepe Velpeau Bandages is discontinued. We, are, therefore, placing on the market a bandage of English manufacture which will be sold as

GIMBER'S EXCELSIOR
CREPE BANDAGE

EXCELSIOR CREPE BANDAGE NAME

TRADE MARK.

An Elastic Bandage. Containing no Indiarubber. Superseding Elastic Stockings, Webs, Bandages, and at half the cost. Three sizes, about 2, 2¾, and 3½ inches wide. **Excelsior Crepe Abdominal Binders.**—Useful after many Abdominal Operations, and for ladies after confinements. Two sizes: 8 & 11 in. wide.

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And of all Wholesale Druggists, Chemists, Surgical Instrument Makers, &c.
Telephone: New Cross 1601. Descriptive Circular & Price List on application.

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What Is It?

CELLOPHANE

is a transparent film of pure Cellulose, **absolutely** air, grease, and odour proof, **unaffected** by cold, heat or moisture, and **sterilisable.**

An **ideal wrapping** for Drugs, Tablets, Bath Crystals, Perfumery, Provisions, Sweets, Surgical Dressings, Articles of Toilet, &c. &c.

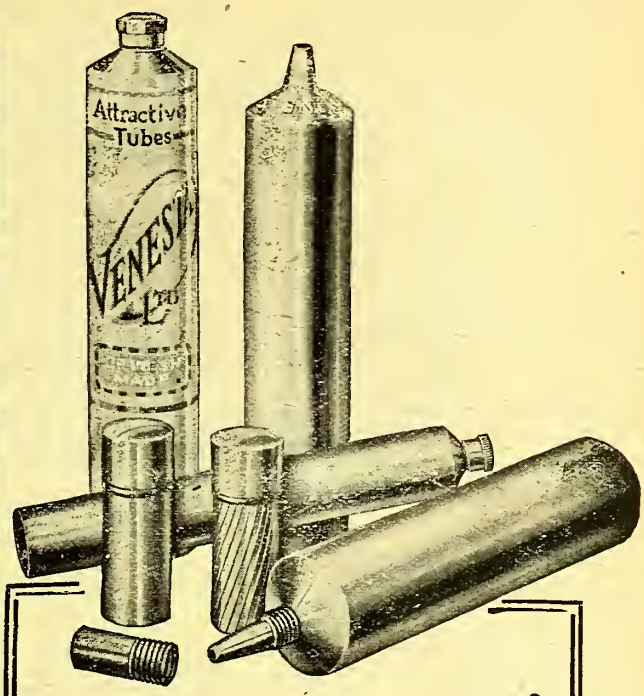
Will keep your Goods, Boxes, Bottles, and delicate Labels **clean** on the Counter and in Shop Windows, allowing the Articles to be seen **by transparency.** Can be had colourless, coloured and embossed.

Also in the shape of **Labels** for Bottles, and **Discs** for Creams, Ointments, Boot Polish, &c.

Cello-Dressings—The best substitutes for Gutta Percha and Oiled Silk. Ask for explanatory circular.

Prices, Samples and Particulars from

The CELLOPHANE COMPANY
(Leclercq & Charerat),
Bolton House, Cullum Street, LONDON, E.C.3.



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When ordering your next supply of tubes remember that Venesta collapsible tubes possess a quality and finish that make them a real selling force.

They are made from Pure Tin, Lead or Lead-coated with Tin and supplied plain or enamelled and printed with designs to suit customers' own requirements.

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G. Dept.

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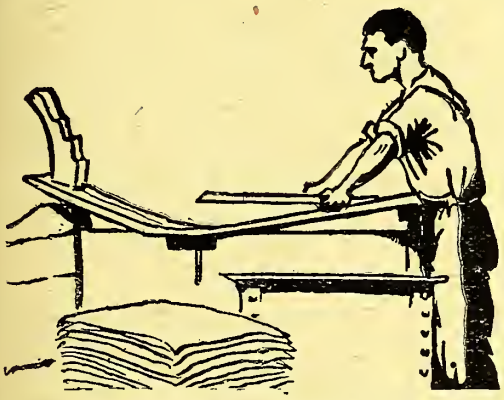
Actual Manufacturers of
TINFOIL
Plain, coloured and embossed in any size, gauge or shape.



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CACHETS "FINOT"

(White or Coloured).

With inscriptions in any desired tint; also Plain or Embossed.

"A distinction all their own."—*C. & D.*
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These Cachets are especially adapted for Headache, Neuralgia and other powders.

COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.
In 17 Sizes to fit the various types of Cachet Machines.

ROLL FILMS

DEVELOPED, PRINTED
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Best possible results and prompt despatch.

Write for price list & terms mentioning "The Chemist & Druggist"

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To ensure Best Results
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Forward your Films to Fox.

33⅓% clear profit for the trade.

The Fox Foto Service specialise in Developing, Printing and Enlarging Amateurs' work, constant repeat orders from all quarters testify to universal satisfaction with the results.

FOX FOTO SERVICE, 8 Castle St., Sheffield.

POSTCARD ENLARGEMENTS

1 dozen from the same negative

B. & W. per dozen **2/-** Sepia per dozen **3/-**

LET US DO YOUR

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BEST WORK & QUICK SERVICE.

SHAWYER, SWINDON, WILTS.

DEVELOPING

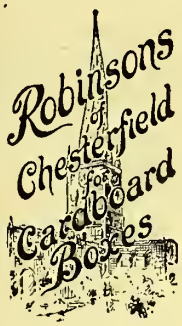
AND PRINTING ROLL FILMS.

Join the live wire service, All work returned same day.

PRICE RIGHT—QUALITY UNEQUALLED.

Write for List "J" to-day.

WALLACE HEATON LTD.
CHANGE ALLEY, SHEFFIELD.



FOLDING BOXES INCREASE YOUR GOODWILL.

— GOODS PACKED IN —
FOLDING BOXES APPEAL TO
THE RETAILER BECAUSE—

1. THEY ARE EASILY CHECKED AND EASILY HANDLED.
2. THEY GIVE 100% SALES—THERE IS NO WASTE.
3. THEY PACK WELL ON SHELVES AND DECORATE THE SHOP.
4. THEY PROVIDE CHEAP, BUT HIGHLY EFFECTIVE DISPLAYS.
5. HIS CUSTOMERS PREFER BRANDED GOODS.

WELL PACKED—EASILY SOLD.

MAY WE HAVE THE OPPORTUNITY OF SENDING YOU SAMPLES AND PRICES.

ROBINSON & SONS, Ltd.

BOXMAKERS TO THE
CHEMIST TRADE

CHESTERFIELD & LONDON.

71

"Corruganza" SEAMLESS OINTMENT BOXES

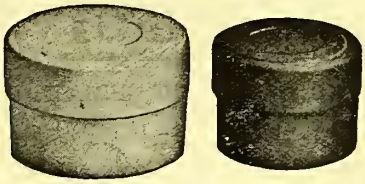
Have replaced the old "Willow" boxes—Greaseproof—the bottoms cannot fall out.

GERMAN "WILLOW" BOXES are again being offered at lower prices, but these boxes will not hold Powders, nor, in warm weather, Ointments.

THEY ARE DEAR AT ANY PRICE.

Stick to the ONE-PIECE principle

"Corruganza" SEAMLESS PILL BOXES.



THE phenomenal success of the "Corruganza" Seamless Ointment Boxes has induced us to offer a series of Pill Boxes made on the same **One-Piece** principle. Stocked in usual sizes.
They cost a little more than the Ring and Disc style, but THEY HOLD THE GOODS, and do not fall to pieces in handling or in the pocket.

Wholesale or Export only from

HUGH STEVENSON & SONS,
LIMITED,

Summerstown Works, London, S.W. 17

And at Manchester, Birmingham, Leith, Perth & Glasgow.

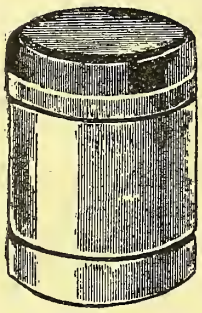
Kindly mention this Journal when replying to the advertisement.

BUSH'S DRUGGISTS' SUNDRIES

WHOLESALE AND EXPORT.

GREATLY REDUCED PRICES

IN ALL DEPARTMENTS. SPECIALITIES IN



Pomade Pots with Celluloid Caps, Test Glasses, Hydro. Jars, Sediment Jars, Urinals, Funnels, Tablet Bottles, Boiling Flasks,

TEST TUBES

CHEAP SYRINGES, EYE BATHS, GRADUATED MEASURES, &c. &c. &c.

HENRY W. BUSH & CO., LTD.

Rembrandt Works, 32/4 Commercial Street - LONDON, E. 1.

BUY DIRECT

AND SAVE INTERMEDIATE PROFITS

VACUUM FLASKS AND REFILLS

Delivery from Stock.

Arthur Berton, Ltd.

15-17 Worship St., LONDON, E.C.2.

MANCHESTER and GLASGOW.

Telegrams: "Aybelim, Finsquare, London."

Phones: Clerkenwell 1347, 1348, 1349 (Private Exchange).

GOODS WELL ADVERTISED ARE HALF SOLD.

There are two reasons for the enormous sales of "Fairy Dyes." One is inside the packet—the goodness of the Dyes—their reliability and their low cost. The other is that we spare no effort or expense to advertise them well.

In every leading Ladies' Weekly and Monthly throughout Great Britain clever "copy" and striking illustrations are convincing the public of the superiority and economy of using "Fairy Dyes" and no others for every home need.

Fairy Dyes

Do you want to increase your sales, your repeat orders, your turnover, with a dye that is easy to sell because it is so simple and so easy to use? There is a choice of twenty-two shades suitable for cottons, woollens, linens or silk, and already "Fairy Dyes" are recognised to be most reliable and economical.

Send us your order now. It is too late when you learn that your competitor has been doing great business with "Fairy Dyes," for the demand for "Fairies" is already very great and growing, and the man who has them in stock is the man who scores. The selling price is 2d. per packet and the public want them from *you*.

FAIRY DYES, LTD.

Regd. Office: 20 RENFREW STREET, GLASGOW.

Telegrams: "Fairyland Glasgow." *Phone:* 1902 Douglas.

LONDON DEPOT: 292 Upper Street, ISLINGTON, N.1

WHITAKER & Co.'s PAGE

"The LUTON HAT DYE I purchased was perfect." STREATHAM COMMON.

GLOSSY SERIES also supplied if desired.

"I am very pleased with the GLOSSY HAT DYE. It has answered splendidly." NOTTINGHAM.

"LUTON"

STRAWHAT DYES

Send for Pattern Book of Latest Shades.

Special NON-INFLAMMABLE SERIES for Export.

"AURORAL"

COLD WATER DYES

Retail at 6d. Showing at least 50% Profit on Outlay.

By the same Makers—

WHITAKER'S VARNISH STAINS.

WHITAKER'S UNIVERSAL FABRIC DYES.

STRIKING AND ATTRACTIVE SHOWMATTER SUPPLIED

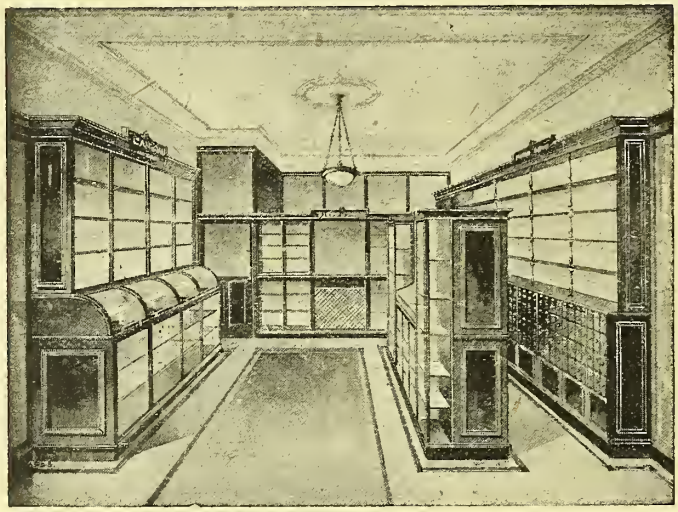
Write to-day for Complete Price Lists and Patterns to

WHITAKER & CO., Colour Works, KENDAL

Telegrams: "Dullette Kendal." Telephone: No. 214.

London Office and Showrooms: Craven House, Kingsway, W.C. 2.

Telephone: Gerrard 1774. Established 1878.



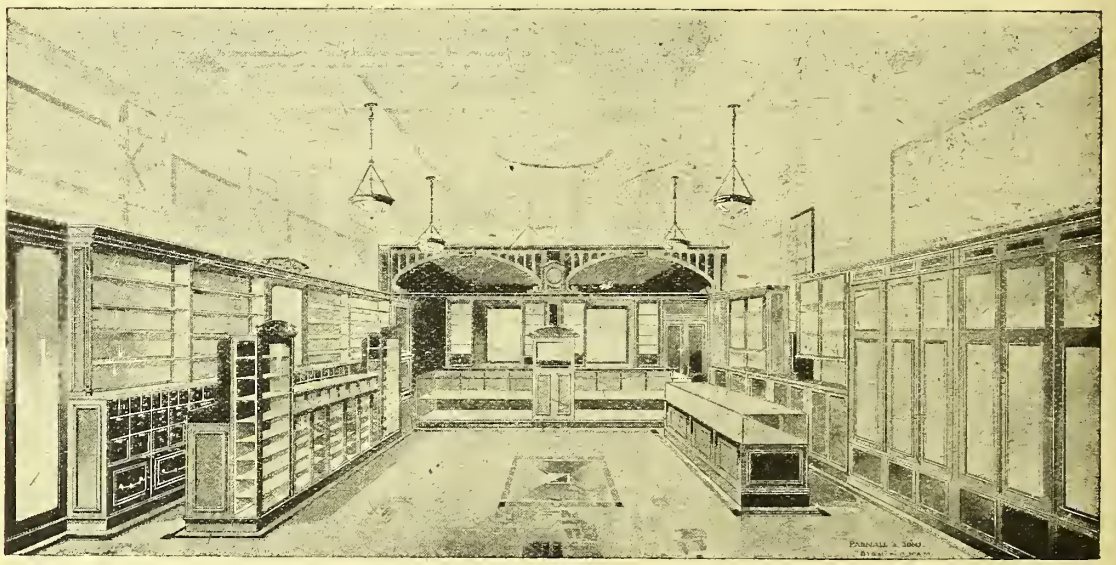
SERVICE INVITES CUSTOM

We give service to you in the way you wish to give service to your customers. Our prolonged study of your requirements is an expression of our desire and ability to serve you.

Our experts are keen, highly trained and experienced men. No problem is too hard for them or too intricate to essay.

Illustrated is typical of our distinctive work.

No. 7255. Complete installation for small premises designed and fitted by us at Tamworth.



No. 7273. Complete Interior scheme at Golders Green, N.W., carried out by us for Messrs. Parks' Drug Stores, Ltd.

OUR REPRESENTATIVES ARE AT YOUR DISPOSAL.

Telephone.....2670 (3 lines).
Telegrams..... "Utensils."

Works:
BROADMEAD, BRISTOL.

PARNALL & SONS LTD
SHOPFITTING SPECIALISTS
27, SUMMER ROW, BIRMINGHAM.

(76)

THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON E.C.4

AUGUST 6, 1921

This Supplement is inserted in every copy of The Chemist & Druggist

HE CHEMIST AND DRUGGIST SUPPLEMENT
REVISED ADVERTISEMENT TARIFF.

inesses Wanted and for Disposal, Premises Let, Goods and Shopfittings for Sale, and ncies: 6/- for **50** words; every additional **10** words or **6d.**

UATIONS OPEN: 6/- for **40** words; every additional ords or less, **6d.**

UATIONS WANTED: 2/- for **18** words; every additional ords or less, **6d.**

Legal Notices, Tenders, Auctions, and all specially-spaced announcements, **1/3** per nonpareil line (12 lines = 1 inch single column).

Miscellaneous (Wholesalers') Section for odd and sec nd-hand lots: **10/-** for **60** words; **1/-** for every additional **10** words or less.

EXCHANGE COLUMN (for Retailers, etc.): **Twopence** per word, minimum **2/-**

BOX NUMBER.

ach case replies may be addressed to a registered number or nom-de-plume, c/o this Office, **at a charge of 1/- extra** for each rtisement.

PAYMENT.

Advertisements are prepaid, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph rgent announcement this may be done, provided the money is telegraphed at the same time.

THE CHEMIST AND DRUGGIST, 42 Cannon Street, LONDON, E.C.4.

Telephone: Central 3617 (3 lines). Telegrams: "Chemicus, Cannon, London" (2 words).

ARLIER CLOSING FOR PRESS.

Will advertisers please note that until further notice it will be necessary that Advertisements nded for the Supplement must h us not later than the FIRST POST THURSDAY MORNING.

CHEMISTS' TRANSFERS.

lessrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

LONDON, N.W.—Ready-money Business for disposal, h serious illness; the returns show a steady increase, last turnover being £1,721; rent £50; held on lease; an liate sale is desired, and no reasonable offer will be refused; e sold.

LONDON, W.—Ready-money Retail, capitally situate in shop-horoughfare; returns, present rate, between £30 and £40 eek; *gross profit one-third*; rent £35; price £1,200.

CENTRAL LONDON.—Old-established Business, situate in main thoroughfare; returns last year between £2,000 and 0; several proprietaries are included; well-appointed shop, stocked; rent £100, sublet £80; held on lease; price arranged.

RIVERSIDE SUBURB, S.W.—Old-established Business, in attractive riverside suburb; returns exceed £3,000 ; *net profit* £877; books kept by accountant; full investiga-ivited; scope for further development; moderate rental; on price to be agreed equitably.

HOME COUNTY.—Old-established Business; returns last year 0; *net profit* £800; small residence; rent £45; 32 years' practically no opposition; price £1,500, or near offer ined.

SUSSEX (COAST).—For immediate disposal, through dissolu- partnership, branch Business, recently opened in good-class t; returns average over £20 weekly, and there is scope ely augment the turnover under personal attention; double- shop; main thoroughfare; good stock; terms, valuation of and fixtures.

.W. MAIN LINE (Attractive Riverside Resort).—Good-class and Dispensing Business; returns present rate, £5,000 num; *net profit* 25%; modern double-fronted shop, fully ; moderate rental; held on lease; terms, valuation of stock tures and premium for lease and goodwill, or lump sum red.

8.—SOUTH MIDLANDS.—Unopposed Village Business; returns £1,200; open to considerable increase under energetic management; comfortable residence; vendor's own property; all in good repair; satisfactory reason for disposal; price, to include property, for an immediate sale, £1,000.

9.—BIRMINGHAM.—Ready-money Business; returns £1,000 yearly; *net profit, after paying all expenses,* £5 *weekly*; vendor values stock and fixtures at £350; six-roomed house; rent £12 yearly inclusive; no near opposition; price £380.

10.—DEVON COAST.—Old-established Business, capitally situated; returns exceed £2,000; *net profit* 25%; attractive, well-fitted shop, fully stocked; further details on application.

11.—SURREY.—Good-class Retail and Dispensing Business, situate in good-class district, within easy reach of town; returns, under management, £3,600, at good prices; well-appointed shop, fully stocked; valuation terms entertained.

12.—MIDLANDS (Large Manufacturing Town).—A Retail and Wholesale Business, comprising small Packed Goods; returns upwards of £12,000 per annum, with scope for development; long lease; terms, stock and fixtures by valuation and premium for lease and goodwill; the investment offers a good opening for two energetic men.

13.—ESSEX (Suburban).—General, Retail, and Prescribing Business, with excellent opening for N.H.I.; returns, last year, £2,000; *net profit* 25%; large double-fronted shop, well fitted and stocked; comfortable residence; bathroom, garden, garage; price for business, £500; property must also be purchased.

14.—BERKS.—Ready-money Retail and Dispensing Business, well situate in good residential town and holiday resort; gross receipts £3,200; *net profit* 25%; rent £60; there is a small residence and garden; long lease; terms, goodwill and valuation of stock and fixtures.

VALUATIONS FOR STOCKTAKING.

rs. O. & Co. desire to emphasize the necessity of a perodical Statement of Account, by which means alone **Profit, value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties and make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BERDOE & FISH

VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 CENTRAL.

STOCKTAKING AND INCOME TAX.

As pioneers in bringing before Chemists the importance of stocktaking in connection with Income Tax, we again call the attention of those who have not yet availed themselves of our services, that with the continual fall in prices it will more than pay them to let us properly value their stocks. Our fees are low, and with our efficient expert staff we guarantee not to disturb the routine of business in the slightest. Please write for terms. We are now booking dates for August and September.

WANTED TO PURCHASE.

BERDOE & FISH are anxiously seeking, on behalf of applicants, good sound businesses throughout England and Wales, and will be glad to hear from owners wishing to sell, or to advise those contemplating selling.

ESTABLISHED 1870.

The Association of Manufacturing Chemists

— LIMITED —

Head Offices—26/28 Kimberley House, Holborn Viaduct, London, E.C.1

(and at 2 Bixteth Street, Liverpool).

PARKIN S. BOOTH, *Accountant & Valuer.*

PHONE: CITY 6942.

Stocktaking and Valuations for all purposes undertaken upon Reasonable Terms.

WE HAVE THE FOLLOWING BUSINESSES FOR DISPOSAL.

1.—WALES.—Very nice Retail and Dispensing Business; returns £2,400 per annum, and increasing; market town; practically unopposed; excellent house accommodation attached; fullest particulars on application.

2.—CITY.—Good-class Cash Business; returns £57 per week; excellent profits; rent £80 per annum; old-established lock-up shop; good reasons for disposal; part purchase price can remain.

3.—Wholesale Business, dealing chiefly in Toilet Specialities; established four years; excellent connections; good turnover; factory 3,000 square feet, with house adjoining; held on lease of 21 years; fullest investigation invited; balance sheets can be inspected; fullest particulars on application.

4.—YORK.—Retail, General, and Dispensing Business, having the sole monopoly of a population of 6,000; excellent house accommodation; returns between £30 and £40 per week, mainly from sale of drugs; similar business cannot be commenced within half-a-mile radius; price, including property, £2,500 or near offer.

5.—Proprietary Article for Sale, having an excellent demand; full particulars on application.

6.—MANUFACTURING CHEMIST'S BUSINESS for Sale, situate near London; excellent factory accommodation; held on 20 years' lease at £60 per annum; offer invited.

PARSON C. BAKER

Pharmaceutical Chemist, M.P.S.

4 CYPRUS ROAD, CHURCH END, N.3

WM. ROOKE ROBERTS, M.P.S., F.S.A.

174 VICTORIA STREET, S.W.1. Tel.: Victoria

Valuers for Purchase, Sale, Probate, Income Tax, Balance Sheet,

Recommended by the British Drug Houses, Ltd., Mess Meggeson, Ltd., Messrs Barclay & Sons, Ltd., and ma other leading Wholesale Houses.

Valuers to the Association of Manufacturing Chemists.

Make a Speciality of the examination and reporting fu to Vendors or Purchasers as to Value, Prospects, Condu &c., on Moderate Terms.

Registers kept of Businesses for Sale. No Charge to Purchaser Enquiries invited. Personal attention given in all cases.

CHARLES C. MARSDEN

Valuer, Transfer Agent & Stocktaker,

44 Sholebroke View, Chapeltown Road, Leeds.

Stocktaking Valuation. Special Terms.

All Valuations have the personal attention of C. C. Marsden.

ERNEST J. GEORGE

EXPERT CHEMISTS' VALUER, STOCKTAKER AND TRANSFER AGENT

PERSONAL ATTENDANCE AND INTELLIGENT SERVICE

VALUATIONS AND ADJUSTMENT OF ACCOUNTS *for* PROBATE *or* TRANSFER

BUSINESS TRANSFERS ARRANGED

202 BIRMINGHAM ROAD, WALSALL

26 LANGSIDE ROAD, NEWLANDS, GLASGOW

LEGAL.

1921. S. No. 3174

IN THE HIGH COURT OF JUSTICE,
CHANCERY DIVISION.

IN THE MATTER of Letters Patent granted to SOCIE CHIMIQUE DES USINES DU RHONE, anciennement Gilli P. Monnet et Cartier bearing date the 5th January, 19 and numbered 29,554,

and

IN THE MATTER of the Patents and Designs Act, 191

NOTICE IS HEREBY GIVEN that SOCIETE CHIMIQ DES USINES DU RHONE, of 21 Rue Jean Goujon, Pa France (lately known as SOCIÉTÉ CHIMIQUE DES USIN DU RHONE, anciennement Gilliard P. Monnet et Cartier) by Originating Summons dated the 17th June, 1921, app that the term of the above-mentioned Letters Patent may extended for a further term of five years or for such ot term as the Court shall think fit. And Notice is Hereby Gi that on Wednesday, the 19th October, 1921, application be made to Mr. Justice Sargant in Court that a day may fixed before which the said Summons shall not be in the pa for hearing, and Notice is Hereby Given that any person desir of being heard in opposition to the said Summons must least seven days before the said 19th October, 1921, lodge no of such opposition at the Chambers of Mr. Justice Sarg Room 156, Royal Courts of Justice, Strand, London, and s a copy thereof upon the Applicants.

Dated this 27th July, 1921.

GEORGE BELOE ELLIS,
70/72 Chancery Lane,
London, W.C. 2,
Solicitor for the Applicants, on whom all documents requi service may be served.

NOTICE.

R. J. BRUCE HORRELL wishes to convey his sincere thanks to the many Wholesale houses who have expressed their mpathy with himself and family in his recent bereavement.

FINANCIAL.

LUMINOUS Earth.—Wanted, Syndicate or Capitalist to re-develop the well-known Grey Aluminous Earth at Frongoch, Merionethshire, North Wales; was in great demand before the r for boiler coverings, brown and coloured wallpapers, tar-ulin making, felt, grease, paints, and many of the other uses Fuller's Earth, which it does not profess to be; the clay also akes an excellent fire brick, indestructible, as the more you rn it the harder it gets; close to G.W.R. station and good ater-power. For samples, analysis, terms, and to view, apply to e Estate Agent, 9 Arenig Street, Bala, North Wales, or, for formation in London, to J. Linda Williams, Esq., 18 St. vithin's Lane, E.C. 2.

WANTED (at once), owing to illness, Managing Director of small Fine Chemical Company; must be experienced Chemical ngineer and Chemist; investment of £1,500 necessary, but money ill be under own control; good prospect for right man. P.C.B. 2/38, Office of this Paper.

BUSINESSES FOR DISPOSAL.

6s. for 30 words or less; 6d. for every additional 10 words or less, prepaid.

ONDON (Central), in busy main thoroughfare.—Old-established, well-equipped Pharmacy; rental £100; sublet £80; lease, rnover, £2,500, at excellent profit; splendid scope for improve-ent; present owner retiring on account of ill-health; £2,500 or ar offer. Apply P.C.B. 12/36, Office of this Paper.

£2,700.—OLD-ESTABLISHED Business in Midlands; £3,000 returns, chiefly proprietaries; sale out-ght, or partnership or amalgamation entertained. 171/35, Office this Paper.

BUSINESSES WANTED.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

DVERTISER wishes to purchase genuine Business in Lanca-shire; turnover £1,500 to £2,000 per annum; please send ll particulars, which will be strictly confidential; must bear ll investigation. "Chemist" (173/36), Office of this Paper.

HEMIST'S Business, South of Birmingham; turnover about £1,500 to £2,000; neglected Business, with scope for in-ease, would suit; replies treated with confidence; banker's and ual Wholesale references; cash available. Apply "Cash," 3 Stanfield Road, Winton, Bournemouth

WANTED, small Drug Store or Homœopathic Business in healthy district; please state price, rent, rates, accommoda-on, etc.; a neglected Business not objected to. Address "Phar-acist" (173/1), Office of this Paper.

FOR SALE.

ONDON, S.W.—Advertiser closing down Drug Department in connection with other departments, is open to immediately spose of complete Stock and Fittings, etc.; stamp. "Statim" 72/35), Office of this Paper.

9 TOOTH Forceps, 1 Chemical Balance, and set of Metric Weights; all in good condition; what offers? Apply 175/8, fice of this Paper.

PARTNERSHIPS.

PARTNER or Managing Assistant (three kept), with view to Partnership, in flourishing, lucrative Scottish Pharmacy; oprietor desiring more leisure; energetic worker, good Salesman, pable organiser, and good character essential; abstainer pre-rred; capital unnecessary. State age, if married, experience, nd references, in confidence, to 173/34, Office of this Paper.

SITUATIONS OPEN.

RETAIL.

6s. for 30 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BIRMINGHAM.—Male Assistant, used to Insurance Dispensing and selling of Kodak Cameras and Specialities. Please state age, height, and salary required, with references, to "Regnoth" (171/40), Office of this Paper.

BRIGHTON.—By third week in August, smart Junior, used to high-class Dispensing business. All particulars and salary required to Watts & Co., 114 Church Road, Hove.

BRIXTON.—Capable Assistant wanted immediately for Dispens-ing and Counter; knowledge of Photography essential; good salary to a smart, live man. D. Andrew Rees, Pharmaceutical Chemist, Loughborough Junction, S.W. 9. Tel.: Brixton 1051

CHANNEL ISLANDS, Jersey.—Mr. F. G. de Faye, Pharmacist, David Place, St. Helier, requires the services of a gentle-manly Assistant for Dispensing and high-class Retail. Send full particulars, references, experience, salary required (outdoors); weekly half-holiday; no Sunday duty.

EASTBOURNE.—Unqualified Assistant required, beginning of September, for Counter; must be energetic, a smart Sales-man, and accustomed to good-class business; outdoors; easy hours. Apply, with full particulars, Mills, Terminus Road, Eastbourne.

EASTERN COUNTIES.—Lady Assistant wanted, with Window-dressing and Photo Salesmanship experience. Apply, giving age, height, salary (outdoors), references, enclosing photo (to be returned), "Statim," c/o British Drug Houses, Graham Street, City Road, N. 1.

GLOUCESTER.—Assistant required; three kept; outdoors; good-class Dispensing and Light Retail; easy hours. State full particulars, with salary, and photo, to Ward & Woodman, Gloucester.

HULL Royal Infirmary.—Wanted, Assistant Dispenser (male); candidates must have had practical experience in the Dis-pensing of Medicines; hours 9 a.m. to 5 p.m., later as required; luncheon provided. Applications, stating age, salary required, and previous experience, accompanied by three recent testimonials, to be addressed to the Secretary at the Institution.

LIVERPOOL.—Capable qualified Assistant, not under 40 years; permanent and comfortable berth for suitable man. Reply, stating age, salary, and usual particulars, to 171/34, Office of this Paper.

LONDON.—Qualified Assistant (outdoors) in an industrial area; must be good Salesman, quick, and energetic; salary and commission on results. State experience, age, etc., to 170/39, Office of this Paper. Those not answered within three days declined with thanks.

LONDON.—As Junior Assistant, for good-class Retail and Dis-ing business, with a little Photography (three Assistants kept); must be a quick and accurate Dispenser. Apply, giving full particulars as to height, age, experience, and salary required, to R. M. Graham, 9 Station Parade, Willesden Green.

LONDON.—Energetic Junior required for good-class Dispensing and Photographic business. Give full particulars of experi-ence and salary to H. F. Ferriss, 349 High Road, Lee Green.

LONDON (near).—Wanted, for fortnight commencing August 13, smart Counter Assistant; age 20-25. Apply, with reference, stating age, height, salary required, to Cooper & Co., Chemists, Sutton, Surrey.

LONDON, E.—Assistant required, at once, for evening duties (10½ hours weekly); Counter and Dispensing; suit Student. Apply, giving full particulars as to experience, age, salary re-quired, "Ricardo" (173/31), Office of this Paper.

LONDON, S.E. 7.—Wanted, a reliable qualified man, in a Retail Prescribing and Dispensing business, near barracks; suit an elderly gentleman. Apply, stating age, etc., salary, etc., to Chemist, No. 9 The Village, Old Charlton, S.E. 7.

LONDON, S.W.—Dispenser required, with Minor qualification, about 25 years of age, of good experience. Write, stating full particulars of experience and salary required (personal inter-view required), Box 512, Sells' Advertising Offices, Fleet Street, E.C. 4.

LONDON, S.W.—Wanted, Counter Assistant of gentlemanly ap-pearance, with good experience of Drugs and Perfumery, about 25 years of age; hours of work, 8.45 a.m. to 6 p.m. Apply by letter, giving full particulars of experience, to Box 512, Sells' Advertising Offices, Fleet Street, E.C. 4. Personal interview required.

LONDON, S.W.—Assistant, lady, outdoor or indoor, Hall certificate, for Counter and Dispensing, mostly N.H.I.; one with Shop experience and not under 25 preferred. Apply by letter, with particulars of past appointments, state salary required, and send no stamps for reply. Chemist, 13 Gunter Grove, Chelsea, S.W.

LONDON, S.W.—Qualified Assistant; a man registered under the Apothecaries Act, M.P.S., who requires to obtain a better knowledge of the Retail would suit. Apply, by letter, "Z." (173/25), Office of this Paper.

LONDON, W.—Qualified Assistant, of good experience, for Dispensing Counter. Apply, giving full particulars, stating salary required, to Roberts & Co., 76 New Bond Street, W.

MIDLANDS.—Reliable Manager (qualified) required; working-class district; good permanency to progressive man. Apply, with full particulars and salary required, to 174/5, Office of this Paper.

NEAR Liverpool.—Capable Junior Assistant required for good-class Dispensing and Photographic business. State salary required, age, and experience, to J. Gregory, Chemist, Huyton.

WEST END, LONDON.—Wanted, Junior; easy, comfortable, permanent berth for suitable man; must be thoroughly reliable, a good Salesman; and well recommended. State salary required, photo (if possible), and full particulars to 173/7, Office of this Paper.

A YOUNG qualified Assistant for quick Cash Store trade in East End; permanency to suitable man; references, experience, and salary required. Write 173/18, Office of this Paper.

CAPABLE qualified Manager required for Middle-class business; a good opportunity for young and energetic man; progressive salary. Apply Bannister & Thatcher, 169 High Street, Bloxwich, Walsall.

DISPENSER, Locum, wanted by Doctor, August 25th to September 7th, inclusive; hours 9-10.30 a.m. and 5-8.30 p.m.; no Sunday work or bookkeeping; three guineas weekly. Dr. Steedman, Woodville House, High Street, Hounslow.

JUNIOR Assistant.—Wanted, smart Assistant for Retail and N.H.I.; highest credentials essential. Apply, with fullest particulars, stating age, salary required, experience, when disengaged, etc., to Austins, Ltd., 198 Bermondsey Street, London, S.E. 1.

JUNIOR Assistant required, September 5th. Apply Thos. Davies, 485 King's Road, Chelsea, S.W. 10.

JUNIOR; age about 20; must have had first-class training and be a good Salesman. State age, height, experience, salary required, photo if possible, when at liberty, with references, to Mr. Austen, Messrs. G. T. W. Newsholme, Ltd., 27 High Street, Sheffield.

JUNIOR or Improver required in a Dispensing business. Apply, with full particulars, 172/21, Office of this Paper.

LADY Dispenser for Medical Man; Apothecaries' Hall qualification. State experience, age, and salary required, to H. Wilson, F.I.C., Ph.C., 146 High Street, Southampton.

MESSRS. OXENS, LTD., have a vacancy for a smart, energetic unqualified Junior, with knowledge of Photography and Salesmanship, for a quick, good-class trade. State full particulars and salary required, with photo, to 4 Bridge Street, Newcastle, Staffs.

QUALIFIED lady or gentleman, young and energetic, as Locum in country business, near London, for about fortnight from August 15; live in; must know a little Photography; no Sunday duty. Particulars and salary to Tiernan, Chemist, Greenhithe, Kent.

QUALIFIED Assistant wanted, three evenings per week, Monday, Wednesday, and Saturday. Apply 173/16, Office of this Paper.

RETURNING PHOTOS, &c.

Advertisers in this section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

QUALIFIED Manager required in good business in South England, at an early date; energy and initiative, with sou practical experience in Pharmacy and commercial principles esse tial; progressive position, with interest in business; full partic lars are requested with application. Apply 173/40, Office of t Paper.

SMART young lady required for Toilet Counter; previous perience necessary, Apply Clarke's, Chemists, 25 High Stre Newport, Mon.

UNQUALIFIED Assistant.—Wanted, a smart unqualified As tant for high-class business in the West End; must be ceptionally good Counterman; permanent and improving positi Apply "B. A." (168/39), Office of this Paper.

WANTED, smart qualified Chemist, as Manager, for a branc quick trade and N.H.I. State age, wages, and referen to 36 Armley Ridge Road, Armley, Leeds.

82/6 WEEKLY.—Assistant, unqualified, for good-class D pensing, Retail; and Photo business; essentially hone and good worker; start August 16. Personal application or ph to H. Hall, 31 The Broadway, Crouch End, N. 8.

WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

ALIVE Salesman for the East Coast, calling Chemists, Stor Hairdressers, with connection; advertisers already have large *clientèle* on ground. Apply 1/36A, Office of this Paper.

FIRST-CLASS Representative wanted for whole of Wales and adjacent counties by progressive, old-established Packed Goods and Specialities house; only those young, energetic Salesmen who possess initiative and an extensive connection among Retail Chemists need apply; residence must be on territory. Give all particulars as to past experience and employers, and state remuneration expected to "Peroquin" (32/80), Office of this Paper.

MANAGER, thoroughly keen, energetic man, required to mans a factory for well-established firm, producing principally fa Toilet Goods (drapery); knowledge of machine work, costings, with experience of handling staff; excellent opportunity advancement for man of good taste, ideas, and enterprise. St age, experience, salary required, 24/66, Office of this Paper.

PERFUMERY and Toilet.—Representative required by w known firm of Manufacturers, for London and South Coa must be capable of introducing new lines. Apply, giving full p ticulars, to P.C.B. 12/33, Office of this Paper.

REPRESENTATIVE required for S., S.W. England and Wales, to call upon Doctors, Veterinary Surgeons, Chemists. Apply, with full particulars as to experience ground covered, to 32/81, Office of this Paper.

REPRESENTATIVE wanted, with connection, calling on Who sale Druggist Sundries houses, Shippers, etc., for Londo state experience, references, age, salary required; first-class T veller only wanted; whole time; good remuneration to right ma must be well educated and good appearance. Apply "Rubbe (172/30), Office of this Paper.

REPRESENTATIVES wanted for all districts with establish connection amongst Chemists, etc., to introduce high-cl one drop concentrated perfumes on commission basis. State grou covered and lines carried to 34/39R, Office of this Paper.

TRAVELLER required, to carry Toilet Speciality as side-li well advertised; London and provinces; commission ba only. P.C.B. 12/26, Office of this Paper.

TRAVELLERS required for London and provinces, on comm sion basis, for the sale of genuine Marseille Soap; n competitive line. Write in confidence, giving fullest particul and ground covered, to "Soap" (15/24J), Office of this Paper

WANTED, smart, active Checker, for Patent Medicines, Dr gists' Sundries, etc.; London house. State full particul to P.C.B. 12/9, Office of this Paper.

WANTED, gentlemen, with first-class connection with Chemis to handle good winter line; prolific seller; one travel booked £200 orders two weeks South Coast, 1915; state counti covered. Apply 41/8V, Office of this Paper.

ANTED, young man for Laboratory by North of England Wholesale house; must have practical experience in the facture of Packed Specialities, Ointments, Pills, Tablets; who has been Junior in Laboratory of good Wholesale house rred; good chance for one who has ability, not afraid of and anxious to take over sole charge; state experience, required, references. Also wanted, experienced, energetic ller for Packed Specialities and Drugs; state ground pre- ly covered and terms required. Apply 173/26, Office of this r.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

MBAY.—Qualified Assistant required at once; three years' agreement; passage paid both ways; permanency if mutually actory at end of first term. Applicants must state full par- rs of age, experience, etc., etc., to 42/49, Office of this r.

TH AFRICA.—A Wet and Dry Counterman required for the Wholesale in a coast town; must be young and unmarried; years' agreement; passage paid out. Please apply, by only, L., 14 Lafone Street, London, S.E. 1.

SITUATIONS WANTED.

[HOME.]

RETAIL.

. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

Advertiser may if preferred, have replies addressed to this ce, and forwarded on payment of an additional charge of 1/-.

CAPABLE Assistant, 10 years' experience, requires post; Dispensing, Photography, etc.; excellent references. Lodge, ood, Montpellier Terrace, Cheltenham.

CAPABLE Assistant, Manager, Locum (39); Photography; 23 years' sound experience; abstainer. "Qualified," 29 St. las Road, Brighton.

CAPABLE and experienced Assistant, deferred in "Materia Medica," desires part-time engagement; best reference; disengaged. M. N. B., 11 Willesden Lane, Kilburn, N.W. 6.

J. GRAY, Chemist, Hawkhurst, wishes to recommend his late Lady Dispenser to any Chemist or Doctor requiring able and trustworthy Dispenser.

QUALIFIED Chemist (48) disengaged; first-class experience, also N.H.I. and Institution; Locum or permanent. Phar- t, 431 Latimer Road, W. 10.

experienced Counterman, Prescriber, unqualified, seeks man- agement Drug Stores, on commission; any district. Harrison, owley Place, Paddington, W. 2.

experienced Dispenser (Hall), lady; experienced Hospital, Institution, and Surgery; excellent testimonials; in London ar. Apply 172/14, Office of this Paper.

PRENTICESHIP wanted, Liverpool or district, by dis- oharged ex-soldier, age 23, unable to continue with own ssion (Engineering), through slight disability; willing to remium or to do six months without salary. Guy, 81 Liver- Road, Crosby, Liverpool.

Assistant or Manager, fully qualified; age 28; tall, keen, energetio; 11 years' thorough experience all branches of ssion; London or country; best references; "Square" d; now at liberty; interview. "Permanency," 3 Laurel ons, Fortune Green, W. Hampstead.

Locum disengaged August 8th to 21st, inclusive; well recommended; good all-round experience. "H.," 222 Ports- Road, W. 9.

Locum or permanency; 15 years' good-class Dispensing, Counter, Photography; disengaged August 15. Benson, rathall Road, Wanstead, Essex.

AS Manager or Assistant; qualified; permanency; 26; tall; keen, energetic; good experience Dispensing and Counter; Lancashire or Yorkshire preferred. Carter, Red Bank Road, Bispham, Blackpool.

ASSISTANT (part qualified), capable, experienced in all branches; good Salesman; quick; Wholesale and Retail; sound references; London district. 170/31, Office of this Paper.

ASSISTANT requires post; age 23; used to first-class Dispens- ing business; Part I. Minor; state salary offered; London preferred. Ward, 26 Cymmer Street, Cardiff.

ASSISTANT (lady, 21), 4½ years' experience good-class Dis- pensing and Retail, excellent references, now disengaged. E. M. Asbrey, c/o J. Ward, Chemist, Builth Wells, Brecoushire.

ASSISTANT, unqualified, or Drug Stores Manager; all-round experience, disengaged. Morris, 43 Adolphus Street, New Cross, S.E

ASSISTANT (28), tall; fully trained, London College; eight years' Dispensing, Counter, etc.; passed Chemistry and Physics; excellent references; state salary offered; any district (outdoors). Ingram, 222 Twyford Avenue, Portsmouth.

ASSISTANT, unqualified; 26; tall; College trained; quick and accurate; Counter and Dispensing; free September 20; please send full particulars. Humphrey, 77 Jeffery Street, Gillingham, Kent.

ASSISTANT, unqualified; good Dispenser, Counterman, Photo- graphy; 14 years' experience; Midlands or seaside; excellent references. "W. D.," 13 Coombe Street, Coventry.

ASSISTANT, unqualified (40), married, desires post; over 20 years' good all-round experience. 171/27, Office of this Paper.

ASSISTANT, unqualified, Stock, Counter, N.H.I. Dispensing, requires permanency; moderate salary. "Statim," 39 Dulwich Road, Herne Hill, S.E.

ASSISTANT (26), tall, unqualified, good Dispenser and Sales- man, Photography, desires post at once; first-class experience; excellent references; state salary. Dawson Woodward, Purton, Swindon, Wilts.

ASSISTANT (24), deferred in one subject; good experience in Counter and Dispensing; good references. Wright, 38 John Street, Rhyl.

ASSISTANT, unqualified, desires part-time situation; Counter and Dispensing. "V. R.," 30 Gore Road, E. 9.

ASSISTANT or Branch Manager (45); unqualified; excellent references; long experience; 10 years last situation; reliable. 62 Park Road, Spalding.

ASSISTANT (23) requires good Dispensing experience; Part I. qualification; good Counter experience; City preferred. Brown, Oak Dene, Oxford Street, Cleethorpes.

ASSISTANT (26); 11 years' good-class Dispensing experience; please send full particulars; permanency; provincial. C. Haigh, 25 Stafford Parade, Halifax.

ASSISTANT, partly qualified; Dispensing, Counter, Photo- graphie; tall; energetio; abstainer; age 22; thoroughly reliable; highest references; disengaged. Williams, 105 East Hill, S.W. 18.

ASSISTANT (26), Materia Medica to complete, desires post for September; good experience; London preferred. "Scot," 40 Achilles Road, West Hampstead, N.W.

ASSISTANT (lady), 24, desires post; permanent or holiday duty; 4 years' General experience; moderate salary; excel- lent references. Apply 172/12, Office of this Paper.

BIRKENHEAD District.—Unqualified; 34; 19 years' experience Dispensing, Photography; part-time, Locum; disengaged. Shaw, 225 Conway Street, Birkenhead.

BRANCH Manager or Locum, qualified; disengaged; ex- perienced; satisfactory references; London, provincial, sea- side. Pharmacist, 38 Wendover Road, Harlesden, N.W.

BRANCH Manager (experienced as such), with or without view to succession; last berth 6 years; excellent references from late employer; 41; married; Apoth. Hall qualification; unregis- tered. "Permanency" (174/18), Office of this Paper.

CAPABLE young Student (21), well educated, several lan- guages, good appearance and personality, seeks Apprentice- ship to a Pharmacist; highest references; no salary required. P.C.B. 12/35, Office of this Paper.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

D.B.O.A. AND 12 years' experience in the Drug trade, expert Window-dresser, requires position with Chemist-Optician; London preferred; disengaged September. Parry-Jones, 16 Earl's Court Gardens. S.W. 5.

DISENGAGED; Locum or permanent; 38; Retail and Dispensing; references; abstainer; Extractions. Turner, 44 Macfarlane Road, Shepherd's Bush, W. 12.

DISENGAGED, unqualified (28), married; passed Chemistry and Physics; 12 years' experience; good references; Dispensing, Counter, Photography; please state salary; Manchester district preferred (not essential). Trippier, 33 South Grove, Plymouth Grove, Manchester.

DISPENSER (Hall) and trained Nurse desires post; London preferred; state salary and particulars. Apply "P.," 26 Lorrimore Square, Kennington, S.E. 17.

DISPENSER, experienced; made; Apotheearies' Hall; middle-aged; active; disengaged; for Doctor or Chemist; Locum or permanency; good references from late employer. "A. B.," 107 Ashburnham Road, Northampton.

DISPENSER, experienced; good references; disengaged. Haviland, 6 Lithos Road, Hampstead, N.W. 3.

DISPENSER-BOOKKEEPER (Hall), qualified, five years' experience, desires post, Doctor or Institution; excellent testimonials and references. Miss Millard, Island Mills, Midsomer Norton, near Bath.

DOCTOR'S Dispenser, unqualified (male), with 20 years' excellent reference (married), desires post in large practice as Dispenser-Bookkeeper; has dispensed for Royalty, and is highly recommended; West or North of England preferred, but would go anywhere. Apply 168/12, Office of this Paper.

EXPERIENCED Assistant, unqualified, married, tall (38), Counter, Dispensing, Photo, etc., desires permanency; London. "Aspirin," 23 Doughty Street, Holborn, W.C. 1.

FIRST-CLASS Assistant desires post as Manager or First Assistant; knowledge all branches, including Veterinary work; tall; 26; trustworthy; highest references. Turner, "Rosemount," Wombwell, Yorks.

IMMEDIATELY.—Locum or part-time; thoroughly capable Dispenser and Counterman; abstainer. "E.," 39 St. Thomas Road, Finsbury Park, N.

IMMEDIATELY.—Locum Relief; any period; town, country; thoroughly competent, capable, experienced; industrious worker. "Reliable," 239 Camberwell New Road, S.E. 5.

INTER. Science (21) desires any position requiring initiative and ability; four years' extensive Analytical and Research experience. Reply "Chemist," 12 St. George's Road, N.W. 6.

JUNIOR (21 years), four years Apprentice, capable, reliable, trustworthy, seeks post; begin September 6th; Islington or London, N., preferred, not essential. Reply "Iridis," 60C Newington Green, N. 16.

JUNIOR, 19, desires post as Counter Assistant; good reference. Apply 173/23, Office of this Paper.

LADY Dispenser (Hall), experienced, Secretary, Shorthand, Typing, knowledge of Nursing, requires post in or near London with Doctor. P.C.B. 12/3, Office of this Paper.

LADY (20), Chemist's daughter, as Junior; good knowledge of Postal work. "Doris," c/o Milne, Chemist, Martham, Great Yarmouth.

LANCASHIRE.—Qualified, requires situation; sound knowledge Dispensing, Counter work; age 23; height 5 ft. 10 in. Apply 173/37, Office of this Paper.

LOCUM, qualified, London; vacant August 9th to 20th, September 18th. Thorley, 27 Crouch Hill, N. 4.

LOCUM, disengaged August 25; long experience; highest references; highly recommended as Manager. "Chemist," 4 Ormond Terrace, Cheltenham.

LOCUM (28), qualified, disengaged August 22-September 17. Cumber, 138 Wimborne Road, Bournemouth.

LOCUM, qualified, disengaged until October; South-Eastern Counties; knowledge of Photography; abstainer. Douglas, 73 Penfold Road, Folkestone.

LOCUM or relief; wide experience; good references; qualified Dispenser; moderate terms. "Reliable," 82 Dahomey Road, Streatham, S.W. 16.

LOCUM, unqualified (25); referred one subject; high-class Dispensing and Counter experience; immediate, until middle September. "Locum," 14 Marlborough Hill Place, Bristol.

LOCUM; September 5-17 inclusive; experienced; Retail, Institution, or Optical. "Pharmacist" (174/6), Office of this Paper.

LOCUM, disengaged the 14th inst.; qualified; elderly; thoroughly experienced; good Salesman; well recommended; very active. Apply P.C.B. 11/29, Office of this Paper.

LOCUM, qualified, good-class experience; abstainer; London or suburbs; disengaged August 29th. "S.," c/o Mr. Angus, Pharmacist, 285 Mile End Road, E. 1.

LOCUM, disengaged August 7-31; thoroughly experienced; good appearance and highest references. Apply "Qualified," 58 Stanfield Road, Winton, Bournemouth.

LOCUM, experienced, recommended; next two weeks or next and fourth separately; five guineas, plus single fare; last fortnight September. Pharmacist, 24 Laurel Grove, Southport.

M.P.S. (LADY) desires post immediately; Retail, Institution, and Medical experience; good references. Apply Tonks, 74 Penhevad Street, Grange, Cardiff.

M.P.S., 29, good all-round experience, also Optics, desires Managership or as Optical Assistant. Apply 172/27, Office of this Paper.

M.P.S. (LADY) requires post in London; eight years' excellent experience, including two years' West End. "O. M. J.," 17 Ruthin Road, Denbigh.

M.P.S. (24), single man; first-class Dispensing, Retail, and Photographic experience; excellent references; South, S.W., or West of England preferred. R. J. Broomfield, "Carisbrooke," Avenue Road, Weymouth.

PART- or whole-time.—Experienced Dispenser, Prescriber, Counter; practical, reliable Assistant. "Extractor," 122 Scott-Ellis Gardens, N.W. 8.

PART-TIME situation required by student; good Dispensing business preferred; age 22 years; willing and reliable. Full particulars and references, "Capsicum," 164 Clapham Road, S.W.

PH.C., 20 years' varied experience, requires Managership and Partnership; E.C., W.C., W., or N.W. preferred; non-resident preferably; cash investment not less than £600; reliable and conscientious worker. Apply 172/29, Office of this Paper.

PHARMACIST, aged 28, married, seeks permanent position, near London, about September, as Manager in a business which offers scope for increase; excellent experience and references; salary by results. Apply 167/25, Office of this Paper.

PHARMACIST (40), married, no children, desires position as Manager in working-class or mining district; good all-round references; 6½ years similar capacity; disengaged about one month. Apply Pharmacist, 6 Mount Pleasant, Houghton-le-Spring.

PLYMOUTH W. of E.—Relief or permanency; experienced; married; Dispensing, Counter, Photography; recommended; disengaged; unqualified. Searle, 47 Duke Street, Devonport.

POSITION in first-class Dispensing establishment desired by qualified Assistant; London preferred; age 24; tall; excellent references. Jones, Vincent House, Bentley, Walsall.

QUALIFIED Chemist, age 42, long Continental experience, seeks situation in good live Pharmacy. Write "Omega," c/o Déronzier, 10 Rue de la Poste, Annecy (France).

QUALIFIED recently (25) requires position; excellent references and experience. W. Pomfret, 1 Whalley New Road, Blackburn.

QUALIFIED, married, seeks position, Manager or Senior, with view to interest in or succession; good experience and references; used to taking charge; country preferred. Please give full particulars, 171/22, Office of this Paper.

QUALIFIED (23), good Counterman, neat Dispenser, desires situation in good-class Dispensing establishment. 171/11, Office of this Paper.

QUALIFIED (26); single; abstainer; Manager or Assistant; highest references. W. R. Smart, 265 Cowley Road, Oxford.

QUALIFIED, energetic (26), highest references, first-class experience in Counter trade and Dispensing, will do Locum or permanency; disengaged August 22. Reply "M.P.S.," 96 Stocks Street, Cheetham, Manchester.

QUALIFIED, high-class experience, tall, active, desires post in Pharmacy with brisk Counter trade; disengaged. Fortnam, Oxford Street, Rugby.

QUALIFIED; 26; tall; good appearance, address; any position; 6 years' experience; can take charge; willing to understudy principal. Apply 172/39, Office of this Paper.

QUALIFIED, disengaged (24); married; Wholesale or Retail; permanency; good experience. Barnes, Thistlewood, Dalston, Carlisle.

QUALIFIED (27), tall, requires post as Manager or Senior; accustomed to high-class Dispensing, Retail, and Photographic business; Birmingham district preferred. Apply Guy, 40 Oliver Road, Edgbaston, Birmingham.

QUALIFIED Dispenser, free September; daughter of Medical Man; previous post 3½ years. Dispenser, 110 Lower Richmond Road, Putney.

QUALIFIED (lady) desires post; experienced Dispensing and Counter. Apply Pharmacist, 42 Newark Street, Stepney, E.

QUALIFIED (26), tall, good references and experience, desires situation in Manchester district. C. T. Stuttard, 54 North Road, Clayton, Manchester.

SENIOR position required by qualified Chemist (September 1912); Minor; age 37; single; 20 years' Retail Continental and Hospital experience; first-class Salesman; pushing, courteous, and thoroughly reliable Dispenser; used to all classes of business; disengaged end of August; open to accept permanency, with good prospects, in return for every consideration shown to employer and his welfare. Apply "Senior," 5 Dorset Mansions, Fulham, London, S.W.

UNQUALIFIED, for August and September, desires position in first-class Dispensing establishment. Mowson, Stourport, Worcestershire.

UNQUALIFIED (22) requires temporary berth; good Dispensing experience; disengaged 10th August. "Juvenis," "Chislehurst," Highdale Avenue, Clevedon, Somerset.

UNQUALIFIED seeks part-time post; studying for Minor. Write, stating salary and hours of duty (Manchester or London preferred), 171/24, Office of this Paper.

UNQUALIFIED Assistant (40), accustomed to quick Retail, Dispensing, and Photography. "Velox," Hartley House, Westgate-on-Sea, Kent.

YOUNG, enthusiastic Pharmacist, highest credentials, first-class training and experience, seeks Managership, with view to partnership and ultimate succession. 171/31, Office of this Paper.

YOUNG lady, aged 20, requires situation; in or near London preferred; good Counter and Photographic experience; excellent references. Apply 174/9, Office of this Paper.

WHOLESALE.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-

A REPRESENTATIVE, with large first-class connection amongst London Chemists and Stores, is open to represent firm of repute; excellent credentials; Salesman. Particulars, Barnett, 116 Barons Court Road, Kensington.

ADVERTISING.—Qualified Chemist, having slight knowledge, desires appointment in Advertising Department of Wholesale house. Apply 172/16, Office of this Paper.

QUALIFIED (23), male, desires situation, Laboratory or Institution; four years' Wholesale experience. Apply 172/22, Office of this Paper.

GENTLEMAN (34), with 15 years' first-class experience in Retail Pharmacy, anxious to represent good house where there is scope for advancement; good personality. "Aspirin" (171/19), Office of this Paper.

REPRESENTATIVE, with live connection Lancs, Ireland, and Wales, desires whole or part Representation; several years present ground. "Satisfaction" (173/2), Office of this Paper.

REQUIRES post; Wholesale preferred; 15 years' all-round experience Drugs, Patents, etc.; capable, energetic. "Aspirin," 37 Brunswick Road, N. 15.

SWISS, married, middle-aged, speaking English, French, German, and Spanish, well acquainted with Pharmaceutical trade, having recently travelled all over Spain for Pharmaceutical house, wishes to join important firm for the management of Branch Office or travelling overseas; would also like to act as Representative for a concern of firms. Apply 175/9, Office of this Paper.

MISCELLANEOUS.

10s. for 60 words; 1s. for every additional 10 words or less.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

MCADAM & TUCKNISS, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. 3. Established 1898. Telephone: 81 Lee Green.—Shares for Sale (free of commission, subject): 250 Brunner Mond, 23s. 6d.; 200 Day & Martin, 6s.; 300 De Trey Ord., 20s. 7½d.; 200 Evans Lescher Ord., 25s. 6d.; 800 Idris "A" 6% Pfs., 9s. 6d.; 790 H. Lamplough Ord., 2s.; 250 Schweppes Def., 10s. 3d.—Shares wanted (subject): Allenbury; Wright Layman and Parkes Drug Pfs.—Bankers, London County and Westminster.

£197.—COMPLETE SET of SHOP-FITTINGS: Mahogany Piano Wall-case; DRUG Fitting, with SHOWCASE over; Handsome Dispensing Screen; Glass-fronted Counter, with Drawers at back; Bent Counter Showcase; Perfumery Showcase and Desk; SILENT SALESMAN Showcase. Other sets in stock. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C. 1.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C. 1.

SHOP FITTINGS.—Drug Fitting, glass-fronted Counter, Wall Cases, and Dispensing Screens for immediate delivery; lowest prices consistent with high-class work. H. Mills & Sons, Shopfitters, 163-165 Old Street, E.C. 1.

THE Receiver of Lunch Cubes, Ltd., at 2 Heiron Street, Kennington, S.E. 17, will be glad to receive offers for the following: 2½ Winchesters Tinct. Capsici, B.P. (Evans Lescher), 12 cwt. Bicarb. Soda, 1½ oz. Sacch. Pulv. 550, one Single Punch Power Tablet Machine, with several dies; also 5 cwt. Brown Waxed Paper, cut in pieces 2" × 4¼", about 2,500 pieces to the lb., all clean, in parcels.

18 CWT. Iron Alum, 38 gallons Cotton Oil (good), 4 cwt. Palm Oil Grease, 2 tons old-fashioned Washing Stone Blue What offers? Faircloth, 160 Clapham Road, London.

EXCHANGE COLUMN.

Twopence per word: Minimum 2s.

FOR DISPOSAL.

240 × 4s. 6d. Yardley's Cologne, 30s. dozen; would exchange Typewriter, Cash Register. Langton, 746 Stockport Road, Manchester.

DRUGS AND CHEMICALS.

WHAT offers?—2 × 1 lb. Botts. Johnson's Metol, 3 × 1 lb. Botts. Johnson's Auredol. "M.," 10 High Road, Wood Green, N.

SHOP FITTINGS.

SHOP Fixtures and small Stock of a Chemist and Druggist. Apply 171/18, Office of this Paper.

WANTED.

PHARMACEUTICAL Books wanted; cash offers on receipt. Gower, Bookseller, 41 Voltaire Road, Clapham.

RADIUM SALT, pure of Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

SODA-WATER Machine, Syphons, Bottles, Cases, etc.; good condition; cheap; outfit suitable for a beginner. Give full particulars and price, 29/49, Office of this Paper.

Trade follows the Ad.

The absolute necessity for increasing British trade—Home and Export—is daily being emphasised by statesmen, business men and bankers.

Travelling and postal costs are now so prohibitive that advertising in a reputable trade journal, with a genuine appeal to actual buyers, like

THE CHEMIST AND DRUGGIST

is the most effective and least expensive way of selling goods.

In the case of THE CHEMIST AND DRUGGIST the appeal is universal. Besides having as regular subscribers all the worth-while firms—manufacturing, wholesale, export and retail—in the United Kingdom, the subscription list includes the names of thousands of responsible firms buying and selling drugs, chemicals, perfumery, druggists' sundries, and allied products in the following countries overseas:

BRITISH EMPIRE	Nigeria	Holland	Chile	**NEAR EAST & FAR EAST**
Australia	North Borneo	Hungary	Colombia	Arabia
British Columbia	Rhodesia	Italy	Costa Rica	Asia Minor
British Guiana	St. Helena	Latvia	Cuba	China
British West Indies	Sierra Leone	Norway	Equador	Japan
Burma	South Africa	Poland	Guatemala	Java
Canada	Trinidad	Portugal	Haiti	Manchuria
Ceylon	Uganda	Roumania	Panama	Mesopotamia
Cyprus	Zanzibar	Serbia	Peru	Palestine
Fiji Islands	**EUROPEAN CONTINENT**	Sicily	Salvador	Phillipine Islands
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Gold Coast	Belgium	Sweden	Venezuela	Syria
Hong Kong	Bulgaria	Switzerland	**AFRICA**	
India	Czecho-Slovakia	Turkey	Algeria	**UNITED STATES OF AMERICA**
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